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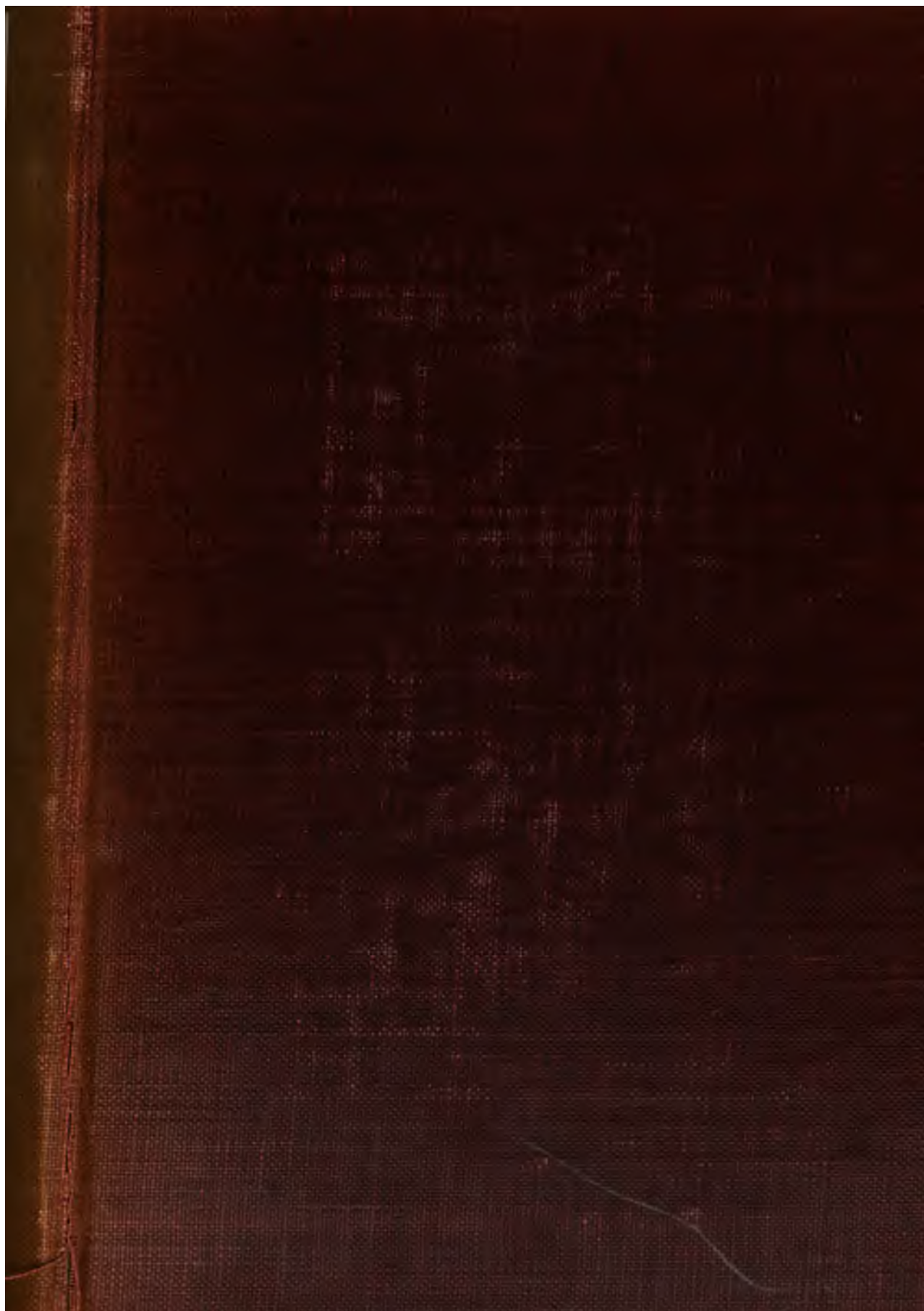
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Class

the 'information' and 'communication' fields. The 'information' field is defined as:

...the study of the nature, use and management of information, and the study of the nature, use and management of the processes and products of communication. (p. 1)

The 'communication' field is defined as:

...the study of the nature, use and management of communication, and the study of the nature, use and management of the processes and products of information. (p. 1)

The 'information science' field is defined as:

...the study of the nature, use and management of information, and the study of the nature, use and management of the processes and products of communication. (p. 1)

The 'information studies' field is defined as:

...the study of the nature, use and management of information, and the study of the nature, use and management of the processes and products of communication. (p. 1)

The 'information science' field is defined as:

...the study of the nature, use and management of information, and the study of the nature, use and management of the processes and products of communication. (p. 1)

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CLASSIFIED CATALOGUE
OF THE
CARNEGIE LIBRARY OF PITTSBURGH

1895—1902

IN THREE VOLUMES

VOLUME I
GENERAL WORKS—PHILOSOPHY—RELIGION
SOCIOLOGY,—PHILOLOGY—NATURAL SCIENCE
USEFUL ARTS



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1907

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Preface

The Board of Trustees of the Carnegie Library of Pittsburgh was organized in 1890. The following year permission was obtained from the city to erect in Schenley Park a central building dedicated to its purposes, to be followed by the erection of branches in other parts of the city. As this first structure approached completion, the work of the Library proper began early in 1895 with the organization of a staff under the leadership of Edwin H. Anderson and in November of that year the Library was opened to the public with a collection of about 16,000 volumes.

A dictionary catalogue listing about 9,000 volumes of the collection had been prepared in pamphlet form and was ready for distribution at the formal opening of the Library to the public. A second impression of this, with slight corrections, was quickly supplied. Since that time no catalogue in book form, attempting to cover the whole of the Library's collections, has been issued. A decision was soon reached, however, to issue regular monthly bulletins of additions to the Library and these began to appear in April 1896. The next year a department of printing was created and not only the Monthly Bulletin but also the cards for the regular card catalogues of the Library, including those of the branches as established, were issued in printed form. The composition was by linotype and the metal was preserved in the form of type so that lists and catalogues of various kinds might be printed from time to time without incurring the cost of re-setting the matter. These type-forms have been used in the making of a number of such lists.

In 1902 a decision was made to issue in book form a Classified Catalogue of all the books in the Library. The collections had grown rapidly and at that time numbered about 145,000 volumes, among which were included many duplicate copies made necessary by the popular character of the work of the Library and its organization of branches.

A number of elements conspired to bring about the de-

cision at that time to proceed with the printing of this catalogue, the most potent of which was the fact that a new and more satisfactory type-face had been determined upon for use in entry words and call numbers in all the catalogues of the Library after July 1, 1902. Thus the type which had until that time been used in printing the catalogue cards and the Monthly Bulletin might be used once more for a book catalogue and then melted down. Because of the change of type only those books in the possession of the Library previous to July 1902 could be included. Subsequent additions would form a supplementary catalogue or a series of supplementary catalogues. It may, perhaps, as well be stated here that the first of these supplements is already in type forming two volumes which are to be issued as soon as they can be got off the press after the three volumes comprising this, the first Classified Catalogue in book form of this Library, have been issued. The five volumes combined will make a complete catalogue of the Library to January 1, 1907, grown by that time to 242,000 volumes.

The use of the old linotype matter made it desirable that few changes should be attempted. Some careful revision was necessary, however, because in the years which had elapsed since the work of printing the catalogue cards had begun, it was inevitable that inconsistencies, and some inaccuracies, should have accumulated. It was not deemed practicable to make all the changes and corrections that were thought desirable. In classification practically no revision was made through the first five main classes of books and in the last five only such changes were made as seemed most urgent, except in the classes Natural science and Useful arts. There the classification was altered and expanded considerably in consonance with the work of the Institut International de Bibliographie at Brussels.

Annotation has been a marked feature in catalogues and lists made by the Library from an early day in its history and it was felt that additional descriptive and explanatory notes to many of the titles in this catalogue would have greatly enhanced its interest and value, but because of the time and labor involved in their preparation few annotations were

added in the earlier parts of the work and none whatever were added in the fiction list. Such notes as were already in type for certain titles were used; other titles needing it no less remain without this feature. The great desirability of these helps has been more strongly felt as the work proceeded and in the latter portion thereof the practice has been so altered that many new notes have been added to titles in the classes Fine arts, History, Travel and description, and Biography.

The general arrangement of the catalogue is in agreement with the divisions of the Decimal Classification, now in rather common use in the United States, of which a brief synopsis is given on page XII of this volume. Individual biographies, however, are arranged in one alphabet and filed under the name of the subject. Likewise books on history, and on travel and description, although assigned numbers in accordance with the regular classification, are arranged in a special way by being placed together under the name of the country treated. At the end have been added full author and subject indexes. It is perhaps unnecessary to state that of course the catalogue does not show the entire resources of the Library upon a given subject, since it does not list specifically parts of a book treating a particular subject. Entries of that character are to be found only in the card catalogues of the Library. Moreover it was not the intention to make a bibliography, therefore many details commonly inserted even in library catalogues were here omitted, the object being to make a simple catalogue for public use as a finding list.

The complete remodeling of the main structure originally erected for the Library and opened in 1895, together with the building of very large additions thereto, brought about conditions that have greatly retarded the preparation and issue of this catalogue. These may be the more clearly realized when it is understood that not only the processes of cataloguing and proof-reading, but also all those of composition, presswork and binding have been accomplished without the employment of other agencies than the Library's own facilities within its Central Library building and have been carried on continuously during the course of that reconstruction and enlargement mentioned above. To offset the incon-

venient delay as far as possible for the public, the classes or parts of the catalogue as they came from the press have been issued in pamphlet form and may be bound up into complete volumes by those possessing all the parts.

Generous acknowledgement is due the Board of Trustees for its broad and liberal support of the whole work of the Library. And beyond that statement it is only fair that there should be singled out for personal mention the President of the Board, Mr W. N. Frew, and the Chairman of the Committee on Administration, Mr George A. Macbeth, both of whom in all the affairs of the Library have given of their time and strength without stint, thereby making such a task as this possible of accomplishment.

To Edwin H. Anderson, the former Librarian, belongs the credit for the inception of the work and the conduct of a large share of it. He saw through the press the first four parts of the catalogue, covering the classes General works, Philosophy, Religion, Sociology, Philology, Natural science and Useful arts. In this he was ably seconded by Miss Henrietta St. B. Brooks, to whom as chief of the Catalogue Department at that time he committed the immediate supervision of the work. Under her were issued the first two sections. Upon leaving the service of the Library, she was succeeded by Miss Margaret Mann, who has carried the work to its completion.

To Miss Mann especially and to her corps of assistants generally should be given hearty recognition for the successful accomplishment of a difficult task in the midst of other heavy duties and under physical conditions that have been most trying—the reconstruction of the building having been carried on all about them as they worked. Of her immediate staff two have done work of so special a character that it calls for notice. These are Miss Irene Stewart, who has revised and edited the copy for printing, and Miss Marion A. Knight, who has revised the classification, making changes and expanding classes where necessary.

The Department of Printing and Binding, under the efficient management of Mr William H. Schwarten, has suffered heavily from the same conditions that have so hampered all departments of the Library and is deserving of high commendation for the results achieved.

These acknowledgements would not be complete without a mention of Miss Mabel A. Frothingham, who as Editor of Library Publications has read all the proof, except that of the first three classes, with an eye both to general form and to specific details after it had passed the usual proof-readers. Further a spirit of cordial cooperation throughout the staff has added many helpful touches here and there, small in themselves, but great in a way that I am unwilling to leave without recognition.

ANDERSON H. HOPKINS,
Librarian.

21 February 1907.

How to Use the Catalogue

The entries in this catalogue are arranged according to the Decimal Classification, a system by which like subjects are brought together and related subjects are grouped in an order more or less logical. For a synopsis of the classes see page XII.

To find a book by a known **author** first consult the author index in volume 3. This index contains the author's name, titles of his works, call number of each work and reference to the volume and page of the catalogue on which the full entry will be found. The *call number* opposite each title is the symbol to be used in calling for the book, and should be copied exactly. If the work is in more than one volume, the volume wanted should be specified in addition to the full *call number*. The titles and call numbers for works of fiction are not included in the author index; there the author's name only is given, with a reference to the list of fiction, where the full entry will be found. Call numbers preceded by the letter "r" or "b" designate books in the reference collection which are not loaned for use outside the Library. These books, as well as all others in the Library, may be consulted freely in the Reference room. The letter "j" prefixed to a call number indicates that the book is in the Children's Department. The author index includes anonymous titles, names of societies and institutions, and titles of all periodical publications.

To find the given resources on a **general subject or class** the synopsis on p. XII of vol. I may be consulted. Only the broad classes are outlined here, but the table serves to show at a glance the scheme of arrangement followed in the catalogue and furnishes a key to the main classes of literature. A more direct way to find books on a **particular subject** is to consult the subject index in volume 3. The number following the subject is the class-number standing for that subject and shows its relative location on the shelves—for example, all books on chemistry will be in class 540. The page number

refers to that place in the catalogue where the books on the subject in question are entered and where the call number for individual works may be ascertained.

Fiction has been filed after the general class Literature, vol.2, p.1722.

Description and travel is grouped with the history of the country treated.

Biography, both collected and individual, has been placed after the general class History, vol.3, p.2708. For individual biography 92 has been used as the class number.

Errata for each volume will be found at the end of the volume.

Synopsis of Classification

Class	Volume and page	Class	Volume and page
000 General works.....	I: 1	500 Natural science.....	I: 575
010 Bibliography.....	I: 1	510 Mathematics.....	I: 588
020 Library economy.....	I: 30	520 Astronomy.....	I: 595
030 General encyclopedias.....	I: 40	530 Physics.....	I: 611
040 General collections.....	I: 42	540 Chemistry.....	I: 644
050 General periodicals.....	I: 42	550 Geology.....	I: 682
060 General societies.....	I: 50	560 Paleontology.....	I: 726
070 Newspapers.....	I: 50	570 Biology.....	I: 735
080 Special libraries.....		580 Botany.....	I: 768
090 Book rarities.....	I: 55	590 Zoölogy.....	I: 790
100 Philosophy.....	I: 59	600 Useful arts.....	I: 837
110 Metaphysics.....	I: 62	610 Medicine.....	I: 851
120 Metaphysical topics.....	I: 63	620 Engineering.....	I: 888
130 Mind and body.....	I: 64	630 Agriculture.....	I: 980
140 Philosophical systems.....	I: 72	640 Domestic economy.....	I: 1002
150 Psychology.....	I: 72	650 Commerce. Business.....	I: 1011
160 Logic.....	I: 81	660 Chemical technology.....	I: 1033
170 Ethics.....	I: 83	670 Manufactures.....	I: 1090
180 Ancient philosophers.....	I: 100	680 Mechanic trades.....	I: 1100
190 Modern philosophers.....	I: 102	690 Building.....	I: 1105
200 Religion.....	I: 108	700 Fine arts.....	2: 1119
210 Natural theology.....	I: 120	710 Landscape gardening.....	2: 1145
220 Bible.....	I: 128	720 Architecture.....	2: 1153
230 Doctrinal theology.....	I: 159	730 Sculpture.....	2: 1201
240 Devotional. Practical.....	I: 175	740 Drawing. Decoration.....	2: 1218
250 Homiletic.....	I: 183	750 Painting.....	2: 1239
260 Church. Institutions.....	I: 188	760 Engraving.....	2: 1292
270 Religious history.....	I: 203	770 Photography.....	2: 1298
280 Churches and sects.....	I: 221	780 Music.....	2: 1313
290 Ethnic. Non-Christian.....	I: 247	790 Amusements.....	2: 1413
300 Sociology.....	I: 264	800 Literature.....	2: 1438
310 Statistics.....	I: 279	810 American.....	2: 1459
320 Political science.....	I: 289	820 English.....	2: 1512
330 Economics.....	I: 319	830 German.....	2: 1639
340 Law.....	I: 389	840 French.....	2: 1656
350 Administration.....	I: 417	850 Italian.....	2: 1676
360 Associations. Institutions.....	I: 449	860 Spanish.....	2: 1682
370 Education.....	I: 465	870 Latin.....	2: 1684
380 Commerce.....	I: 505	880 Greek.....	2: 1697
390 Customs. Folk-lore.....	I: 529	890 Minor languages.....	2: 1713
400 Philology.....	I: 555	Fiction.....	2: 1722
410 Comparative.....	I: 556	900 History.....	2: 2068
420 English.....	I: 558	910 Geography and travel.....	2: 2084
430 German.....	I: 566	920 Biography.....	3: 2708
440 French.....	I: 568	930 Ancient history.....	2: 2116
450 Italian.....	I: 569	940 Europe.....	2: 2154
460 Spanish.....	I: 569	950 Asia.....	2: 2335
470 Latin.....	I: 570	960 Africa.....	2: 2380
480 Greek.....	I: 571	970 North America.....	3: 2411
490 Minor languages.....	I: 571	980 South America.....	3: 2679
		990 Oceanica. Polar regions.....	3: 2688

General works

010 Bibliography

- BIBLIOGRAPHER**; monthly. 6v. 1882-84.....qro10 B47
Continued by "Book-lore."
- BIBLIOGRAPHICA**; papers on books, their history and art;
quarterly. 3v. 1895-97.....qro10 B473
v.3 contains a general index.
No more published.
- BOOK-LORE**; monthly. 6v. 1885-87.....qro10 B63
Continuation of "Bibliographer."
- BOOKMAN** literary year-book. 1898.....ro10 B631
- BOOKMART**; monthly. 8v. in 5. 1884-90.....qro10 B6313
No more published.
- BOOKWORM**; an illustrated treasury of old-time literature;
monthly. 7v. 1888-94.....ro10 B6312
No more published.
- BULLETIN** of bibliography. v.i-date. 1897-date.....qro10 B87
- BURTON**, John Hill.
Book-hunter.o10 B95
- CAMPBELL**, Frank.
Theory of national and international bibliography, with
special reference to the introduction of system in the
record of modern literature. 1896.....ro10 C15
- CLEGG**, James, *comp.*
International directory of booksellers, and bibliophile's
manual, including lists of the public libraries of the
world. 1899.....ro10 C551
Bibliographical works of reference, p.313-344.
- DIBDIN**, Thomas Frognall.
Bibliomania; or, Book-madness. 1876.....qro10 D54
- ELTON**, Charles Isaac, & Mary Augusta.
Great book-collectors. 1893. (Books about books.).....o10 E56
- FIELD**, Eugene.
Love affairs of a bibliomaniac. 1896.....o10 F45
"Field conceived the volume as recording the talk and recollections of
a collector of mature years, looking back fondly upon the passions of
his life and passing them on to his fellows with modesty, but withal a
conviction that he who makes two bibliomaniacs to grow frenzied
where only one was mad before is a benefactor to the human race."
New York tribune.
- GENTLEMAN'S** magazine library; ed. by G. L. Gomme; Bib-
liographical notes. 1889.....o10 G29
- GROWOLL**, Adolf.
American book clubs; their beginnings and history, and a
bibliography of their publications. 1897.....ro10 G94
- LANG**, Andrew.
The library. 1892.....o10 L23

- LIBRARIAN**, by James Savage; monthly. 3v. in 2. 1808-09...ro10 L68
No more published.
- LITERARY** year-book. v.1-5. 1897-1901.....ro10 L74
- MAXWELL**, Sir Herbert Eustace.
Rainy days in a library. 1896.....o10 M52
- MERRYWEATHER**, F. Somner.
Bibliomania in the middle ages. 1849.....ro10 M63
- POWELL**, G. H.
Excursions in Libraria; retrospective reviews and bibliographical notes. 1896.....ro10 P87
The same. 1896.....o10 P87
Contents: The philosophy of rarity.—A Gascon tragedy, 14th century.—A shelf of old story-books.—The pirate's paradise, 1740.—A medley of "Memoirs."—With Rabelais at Rome, 1536.—The wit of history.
- POWER**, John, *comp.*
Handy-book about books. 1870.....ro10 P874
- ROBERTS**, William.
Book-hunter in London; historical and other studies of collectors and collecting. 1895.....o10 R53
- ROGERS**, Walter Thomas.
Manual of bibliography. 1891.....ro10 R61
- ROUYEYRE**, Édouard, *ed.*
Connaissances nécessaires à un bibliophile; accompagnées de notes critiques et de documents bibliographiques.
10v. in 5. 1899.....ro10 R78
- SLATER**, John Herbert, *comp.*
Library manual; a guide to the formation of a library.....ro10 S63
- SLATER**, John Herbert.
The romance of book-collecting. 1898.....o10 S63
Contents: In eulogy of catalogues. — A comparison of prices. — Some lucky finds.—The forgotten lore society.—Some hunting-grounds of London.—Vagaries of book-hunters.—How fashion lives.—The rules of the chase.—The glamour of bindings.—The hammer and the end.
- UZANNE**, Louis Octave.
Bouquinistes et bouquineurs; physiologie des quais de Paris du Pont Royal au Pont Sully. 1893.....o10 U35
Studies of the open-air booksellers and book-lenders and their stalls along the Paris quays, with some account of the history of the trade.
- WHEATLEY**, Henry Benjamin.
Prices of books; an inquiry into the changes in the price of books which have occurred in England at different periods. 1898. (Library series.).....o10 W59
- BRUNET**, Jacques Charles, *comp.*
Manuel du libraire, avec supplément. 8v. 1860-80.....ro11 B83
- DIBDIN**, Thomas Frognall.
Library companion. 2v. 1824.....ro11 D54
A general bibliography, descriptive and critical. It gives special attention to old and rare editions. Dibdin's bibliographical work was severely criticised in contemporary reviews, which pronounced it inaccurate and misleading, and it is largely as bibliographical curiosities that his books retain interest to-day.
- DUCLOS**, l'abbé, *comp.*
Dictionnaire bibliographique, historique et critique des

- livres rares. 3v. 1790.....r011 D86
 "Cet ouvrage auquel Cailleau passe pour avoir travaillé, est tout entier
 de Duclos." *Quévard*.
GRAESSE, Johann Georg Theodor, *comp.*
 Trésor de livres rares et précieux, avec supplément. 7v. in
 8. 1859-69.....qro11 G76
WATT, Robert, *comp.*
 Bibliotheca Britannica; or, A general index to British and
 foreign literature. 4v. 1824.....qro11 W32

012-013 Bibliography of individual authors

- BAKER**, William Spohn.
 Bibliotheca Washingtoniana. 1889.....qro12 W27
CORNELL UNIVERSITY—Library.
 Catalogue of the Dante collection presented by Willard
 Fiske. 2v. 1898-1900.....qro12 D23
 v.1. Dante's works.—Works on Dante (A-G).
 v.2. Works on Dante (H-Z).
FISH, Daniel, *comp.*
 Lincoln literature; a bibliographical account of books and
 pamphlets relating to Abraham Lincoln. 1900.....qro12 L71
KOCH, Theodore Wesley.
 Growth & importance of the Cornell Dante collection.
 1900.qro12 D23k
 Reprinted from the "Cornell magazine," June 1900.
KOCH, Theodore Wesley, *comp.*
 Hand-list of framed reproductions of pictures and portraits
 belonging to the Dante collection of Cornell university.
 1900. (Cornell university. Publications.).....qro12 D23k
 Bound with the above.
LINCOLN, Abraham.
 Catalogue of Lincolniana; a collection of engravings, litho-
 graphs, books, eulogies, orations, pamphlets, etc. relat-
 ing wholly or in part to Abraham Lincoln. 1902.....r012 L71c
MINER, William Harvey, *comp.*
 Daniel Boone; a contribution toward a bibliography of
 writings concerning Daniel Boone. 1901.....r012 B63m
OSWALD, Eugen, *comp.*
 Goethe in England and America; bibliography. 1899.
 (English Goethe society. Publications, no.8.).....r012 G550
 Reprinted from "Die neueren sprachen," Marburg.
PHILADELPHIA—Free library.
 Bulletin, Nov. 1898-date. v.1-date. 1898-date.....qro12 P49
 v.1 (no.1-4). Descriptive catalogue of the writings of Sir Walter Scott,
 by John Thomson.—Descriptive catalogue of the series of works
 known as the Library of old authors, by John Thomson.—Indexes to
 the first lines and to the subjects of the poems of Robert Herrick.—
 Some notes on the bibliography of the Philippines, by T. C. Middle-
 ton.
 Issued irregularly. These four numbers are all that have appeared up
 to August 1902.
SCOTT, Temple, *comp.*
 Bibliography of the works of William Morris. 1897.....r012 M91
SHEA, John Gilmary, *comp.*
 Bibliography of Hennepin's works. 1880.....r012 H44

SHEPHERD, Richard Herne, *comp.*

Bibliography of Carlyle; a list of the published writings of

Carlyle, 1820-1881. 1881.....r012 C21

Bibliography of Coleridge; a list of the published and
privately-printed writings of Coleridge; enl. by W. F.

Prideaux. 1900.....r012 C68

Bibliography of Dickens; a list of the published writings of

Dickens, 1834-1880. 1880.....r012 D55

Bibliography of Ruskin; a list of the published writings of

Ruskin, 1834-1879. 1879.....r012 R89

Bibliography of Tennyson; a list of the published and pri-
vately-printed writings of Tennyson, 1827-1894. 1896..r012 T295

SPRINGFIELD, Mass. CITY LIBRARY ASSOCIATION.

Cromwell list; notes for the study of Oliver Cromwell and
his times, with special reference to Arthur Paterson's
novel "Cromwell's own," together with various other

writings relating to the life of the lord protector. 1899..r012 C89

WINSHIP, George Parker, *comp.*Cabot bibliography, with an introductory essay on the
careers of the Cabots, based upon an independent exami-
nation of the sources of information. 1900.....r012 C11

UNITED STATES—Library of Congress.

Preliminary list of books and pamphlets by negro authors;

comp. by Daniel Murray. 1900.....r013 U25

014 Anonyms, pseudonyms

BARBIER, Antoine Alexandre, *comp.*

Dictionnaire des ouvrages anonymes. 4v. 1872-79.....r014 B23

CUSHING, William, *comp.*

Anonyms. 1890.....qr014 C93a

Initials and pseudonyms, 1st-2d ser. 2v. 1885-88.....qr014 C93

HALKETT, Samuel, & Laing, John, *comp.*

Dictionary of the anonymous and pseudonymous literature

of Great Britain. 4v. 1882-88.....qr014 H16

015 Bibliography of special countries

AMERICAN catalogue, 1876-1900. v.1-6. 1889-1900.....qr015 A51

ANNUAL American catalogue, 1889-date. v.4-date. 1890-

date.....qr015 A61

BENT, W. *pub.*

London catalogue of books, 1800-1827. 1827.....r015 B44

BIBLIOGRAPHIE de la France; ou, Journal général de l'im-

primerie et de la librairie; weekly. v.1-date. 1810-date..qr015 B47

BOWKER, Richard Rogers, *comp.*State publications; a provisional list of the official publica-
tions of the several states of the United States, from
their organization. v.1. 1899.....r015 B66s

v.1. New England states.

- BOWKER, Richard Rogers, & Hickcox, J. H. comp.**
 United States government publications, July 1, 1884-June 30, 1890. 1891.....qro15 B66
 Reprint of the appendix of the "American catalogue," 1884-90.
- CARDIFF FREE LIBRARIES, Cardiff, Wales.**
 Catalogue of printed literature in the Welsh department.
 1898.qro15 C19
- CATALOGUE annuel de la librairie française, 1893-1898;**
 rédigé par D. Jordell. 6v. 1894-99.....ro15 C27
 Continued as "Répertoire bibliographique de la librairie française,"
 ro15 C27r.
- CUMULATED index to the books of 1898-date. v.1-date.**
 1900-date.qro15 C91
- ENGLISH catalogue of books, 1835-1900. v.1-6. 1864-1901..qro15 E64**
- ENGLISH catalogue of books; annual, 1892-date. v.56-date.**
 1893-date.qro15 E64a
 v.56-64, 1892-1900, bound with the "Annual American catalogue" for
 the same years.
- GROWOLL, Adolf.**
 Book-trade bibliography in the United States in the 19th
 century, to which is added A catalogue of all the books
 printed in the United States with prices and places
 where published annexed, published by the booksellers
 in Boston, January 1804. 1898.....ro15 G94
 Contains sketches of some American bookseller-bibliographers, including
 Henry Stevens and Frederick Leyboldt.
- HAIGHT, W. R. comp.**
 Annual Canadian catalogue of books, 1896. v.1. 1898....ro15 H14a
 Supplement to his "Canadian catalogue of books."
 Canadian catalogue of books, 1791-1895. v.1. 1896.....ro15 H14
- HEINSIUS, Wilhelm, comp.**
 Allgemeines bücher-lexikon; oder, Vollständiges alphabet-
 isches verzeichniss der von 1700 bis 1893 erschienenen
 bücher welche in Deutschland gedruckt worden sind.
 19v. in 26. 1812-94.....qro15 H42
- HILDEBURN, Charles Swift Riché, ed.**
 Century of printing; the issues of the press in Pennsyl-
 vania, 1685-1784. 2v. 1885-86.....qro15 H54
 v.1. 1685-1763.
 v.2. 1764-1784.
 Amplification of his "List of the publications issued in Pennsylvania,"
 giving full descriptions of titles, with collations, of books, pamphlets
 and broadsides. Contains an autograph letter from the author.
 List of the publications issued in Pennsylvania, 1685 to 1759.
 1882.qro15 H541
 A preliminary list, giving only short titles, with the name of the printer,
 and the date of issue, amplified in his "Century of printing." Ms.
 annotations by Isaac Craig.
- HINRICHS, J. C. pub.**
 Verzeichnis der im deutschen buchhandel neu erschien-
 enen und neu aufgelegten bücher, landkarten, &c. v.190-
 date. 1893-date.....qro15 H56
 v.206-date title reads "Hinrichs' halbjahrs-katalog der im deutschen
 buchhandel erschienenen bücher, landkarten, &c."
- HODGSON, Thomas, pub.**
 London catalogue of books, 1831-1855. 1855.....ro15 H66

KAYSER, Christian Gottlob, *comp.*

Vollständiges bücher-lexicon. v.1-30, in 24. 1834-1900...qr015 K14

LE SOUDIER, H. *pub.*

Bibliographie française; recueil de catalogues des éditeurs français. 6v. 1896.....r015 L64

The same. Ed. 2. 10v. 1900.....qr015 L64b

Mémorial de la librairie française; revue hebdomadaire des livres; complément de la Bibliographie française, 1896-date. v.3-date. 1896-date.....r015 L64m

LORENZ, Otto Henri, *comp.*

Catalogue général de la librairie française, 1840-1899. v.1-

14. 1867-1901.....r015 L87

v.1-4. 1840-1865.

v.5-6. 1866-1875.

v.7-8. Table des matières, 1840-1875.

v.9-10. 1876-1885.

v.11. Table des matières, 1876-1885.

v.12. 1886-1890; rédigé par D. Jordell.

v.13. Table des matières, 1886-1890; rédigé par D. Jordell.

v.14. 1891-1899; rédigé par D. Jordell.

LOWNDES, William Thomas, *comp.*

Bibliographer's manual of English literature; new edition

by H. G. Bohn. 6v. 1869.....r015 L96

The same. 5v. in 4. 1858-64.....r015 L96b

NIJHOFF, Martinus, *pub.*

Sciences, belles-lettres et arts dans les Pays-bas, surtout

au 19e siècle; bibliographie systématique. v.1. 1895....r015 N34

v.1. Linguistique, histoire littéraire, belles-lettres.

PUBLISHERS' trade list annual. v.12, 16, 18, 20, 22-date.

1884-date.qr015 P98

REFERENCE catalogue of current literature, 1894-1898. 3v.

1894-98.r015 R28

RÉPERTOIRE bibliographique de la librairie française,

1900-date; rédigé par D. Jordell. v.1-date. 1901-date...r015 C27r

Continuation of "Catalogue annuel de la librairie française," r015 C27.

ROORBACH, Orville Augustus, *comp.*

Bibliotheca Americana; catalogue of American publications,

1820-1852. 1852.....r015 R68

SAMPSON, Frederick Asbury.

Bibliography of Missouri authors. 1901.....qr015 S19

Reprint from "Encyclopædic history of Missouri."

STEVENS, Henry, *comp.*

American books with tails to 'em; a private pocket list of the incomplete or unfinished American periodicals, transactions, memoirs, judicial reports, laws, journals, legislative documents and other continuations and works in progress supplied to the British museum and other libraries, by Henry Stevens. 1873.....r015 S84

TRÜBNER, Nicolas, *comp.*

Bibliographical guide to American literature; a classed list of books published in the United States during the last

40 years. 1859.....r015 T77

UNITED STATES catalog; books in print, 1899; ed. by G. F. Danforth and M. E. Potter. 1900.....qr015 U2532

o16 Bibliography of special subjects

Many other bibliographies, forming parts of books, will be found noted with the books, under the subjects of which the books themselves treat.

AMERICAN LIBRARY ASSOCIATION.

Catalog of "A. L. A." library; 5000 volumes for a popular library selected by the American library association and shown at the World's Columbian exposition. 1893..r016 A51
Published by the United States bureau of education.

BEST reading, 1st-4th ser. 4v. 1877-93.....r016 B46
v.1 ed. by F. B. Perkins; v.2-4, by L. E. Jones.

BOWKER, Richard Rogers, *comp.*

Publications of societies; a provisional list of the publications of American scientific, literary and other societies, from their organization. 1899.....r016 B66

BRITISH MUSEUM.

Subject index of the modern works added to the library, 1891-1895. 1897.....qr016 B75

HARVARD UNIVERSITY—Library.

Bibliographical contributions; ed. by Justin Winsor. v.1, no.12; v.2, no.22, 31-37; v.3, no.38-51; v.4, no.52-53, in 2. 1881-98.qr016 H33

Partial contents: v.1-3. Lane, W. C. comp. Dante collections in the Harvard college and Boston public libraries.—Woodberry, G. E. Notes on the ms. volume of Shelley's poems in the library of Harvard college.—Weitenkampf, Frank, comp. Bibliography of William Hogarth.—Potter, A. C. comp. Bibliography of Beaumont and Fletcher.—Gross, Charles, comp. Classified list of books relating to British municipal history.—Lane, W. C. & Bolton, C. K. comp. Notes on special collections in American libraries.—Weeks, S. B. comp. Bibliography of the historical literature of North Carolina.—Morgan, M. H. comp. Bibliography of Persius.—Albee, L. R. comp. The Bartlett collection; a list of books on angling, fishing and fish culture in the Harvard college library.

v.4. Potter, A. C. & Bolton, C. K. comp. Librarians of Harvard college, 1667-1877.—Brown, W. G. comp. List of portraits in the various buildings of Harvard university.

HASSE, Adelaide Rosalie, *comp.*

Reports of explorations printed in the documents of the United States government; a contribution toward a bibliography. 1899. (United States—Documents office.)..r016 U25

LADIES' HOME JOURNAL.

Five thousand books; a guide to the best books. 1895....r016 L13

NEW YORK (state)—Library.

Bulletin; bibliography. v.1—date. 1895—date.....r016 N26

v.1 (no.1-20). Guide to the study of Whistler, by W. G. Forsyth and J. L. Harrison.—Reading list; colonial New England, by M. C. Wilson.—Select bibliography on travel in North America, by C. W. Plympton.—Reading list on the history of the 17th century, by G. F. Leonard.—Selection of reference books for the use of cataloguers in finding full names.—Reading list on Japan, by H. K. Gay.—Reading list on Venice, by Helen Sperry.—Reading list of out-of-door books, by H. H. Stanley.—Reading list on the Netherlands, by E. G. Thorne.—Reading list on renaissance art of the 15th and 16th centuries, by A. S.

- Ames and E. P. Andrews.—Reading list on history of latter half of 15th century, by Etheldred Abbot.—Best books of 1897, with notes.—Fairy tales for children, by F. J. Olcott.—Index to subject bibliographies in library bulletins, by Alice Newman.—Reading list on Russia, by A. L. Morse.—Illustrative material for nature study in primary schools, by C. W. Hunt.—Bibliography of biography of musicians, by A. L. Bailey.—Best books of 1898, with notes.—College libraries of the United States; contribution toward a bibliography, by Hugh Williams.—Reading list on house decoration and furnishing, by E. E. Miersch.
- v.2 (no.21-30). Best books of 1899, with notes.—Bibliography of domestic economy, by R. K. Shaw.—Reference list on Connecticut local history by C. A. Flagg.—Bibliography of New York colonial history, by C. A. Flagg and J. T. Jennings.—China and the Far East, 1889-99, by Margaret Windeyer.—Reference list on Maine local history, by D. B. Hall.—Best books, 1900, with notes.—List of a \$500 library recommended for schools.
- v.3 (no.31-32). Monopolies and trusts in America, 1895-99, by Fanny Borden.—Biography for young people, by B. E. Hyatt.
- NEW YORK (state)—University—Extension department.
- Syllabus, no.1-71. 3v. 1892-98.....ro16 N261
no.18, 45 wanting.
- SARGANT, E. B. & Whishaw, Bernhard.
- Guide book to books. 1891.....qro16 S24
- SONNENSCHNEIN, William Swan, *comp.*
- Best books; a reader's guide. 1894.....qro16 S69
- Reader's guide to contemporary literature; 1st supplement
to Best books. 1895.....qro16 S69r
- STEVENS, Benjamin Franklin, *comp.*
- One thousand English books in handsome bindings recommended for the English portion of an American home library. 1874.....ro16 S84

o16.01 Bibliography of bibliography

- JOSEPHSON, Aksel Gustav Salomon, *comp.*
- Bibliographies of bibliographies; chronologically arranged, with occasional notes. 1901. (Chicago, Bibliographical society. Contributions to bibliography, no.1.)....ro16.01 J44
- OTTINO, Giuseppe, & Fumagalli, Giuseppe, *comp.*
- Bibliotheca bibliographica Italica; catalogo degli scritti di bibliologia, bibliografia e biblioteconomia pubblicati in Italia e di quelli risguardanti l'Italia pubblicati all'estero. 5v. in 1. 1889-1901.....qro16.01 O31
- PETZOLDT, Julius, *ed.*
- Bibliotheca bibliographica; kritisches verzeichniss der das gesamtgebiet der bibliographie betreffenden litteratur des in- und aus-landes, in systematischer ordnung. 1866.ro16.01 P46
- VALLÉE, Léon, *comp.*
- Bibliographie des bibliographies, avec supplément. 2v. in 1. 1883-87.....ro16.01 V16

o16.05-o16.07 Bibliography of periodicals and newspapers

- ANNUAIRE des journaux, revues et publications périodiques parus à Paris; publié par H. Le Soudier. v.18, 22. 1898-1900.ro16.05 A61

BOSTON—Public library.

List of periodicals, newspapers, transactions and other serial publications currently received in the principal libraries of Boston and vicinity. 1897.....qro16.05 B64

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Catalogue of periodicals and newspapers. 1899.....ro16.05 C21

CHICAGO LIBRARY CLUB, comp:

List of serials in public libraries of Chicago and Evanston, corrected to Jan. 1901. 1901.....ro16.05 C43

STEIGER, Ernst, comp.

Periodical literature of the United States of America, with index and appendices. 1873.....qro16.05 S81

UNITED STATES—Library of Congress.

Union list of periodicals, transactions and allied publications currently received in the principal libraries of the District of Columbia. 1901.....qro16.05 U25

JAMES, Edmund Janes, & Loveless, M. J. comp.

Bibliography of newspapers published in Illinois prior to 1860. 1899. (Illinois state historical library. Publications, v.1.).....ro16.07 J16

UNITED STATES—Library of Congress.

Check list of American newspapers in the Library of Congress. 1901.....qro16.07 U25

WISCONSIN HISTORICAL SOCIETY.

Annotated catalogue of newspaper files in the library; comp. by E. H. Blair. 1898.....ro16.07 W81

o16.09 Bibliography of book rarities**CARNEGIE LIBRARY OF PITTSBURGH.**

Descriptive list of some old books and mss, some fine editions and fine bindings and some books on printing, exhibited Nov. 5–Dec. 31, 1896. 1896.....ro16.09 C21

QUARITCH, Bernard, comp.

Catalogue of the monuments of the early printers in all countries, offered for cash by Quaritch. 1888.....ro16.093 Q18
Contents: Germany and the Low countries.—Italy.—France.—Spain, Portugal, north and east Europe, America and the East.—England.

ROSENTHAL, Jacques, comp.

Incunabula typographica; catalogue d'une collection d'incunables décrits et offerts aux amateurs à l'occasion du cinquième centenaire de Guttenberg. 1900.....ro16.093 R72

BRITISH MUSEUM.

Catalogue of books in the library printed in England, Scotland and Ireland, and of books in English printed abroad, to 1640. 3v. 1884.....ro16.094 B75

GOLDSMID, Edmund, comp.

Complete catalogue of all the publications of the Elzevier presses at Leyden, Amsterdam, The Hague and Utrecht, with introduction, notes and appendix containing a list of all works, whether forgeries or anonymous publica-

- tions, generally attributed to these presses. 3v. in 1.
1886-88. (Bibliotheca curiosa.).....r016.094 G58
- HARSNETT LIBRARY, Colchester, England.
Catalogue. 1888.....qr016.094 H31
Life of Bishop Harsnett, p.5-34.
- RENOUARD, Antoine Augustin.
Annales de l'imprimerie des Alde; ou, Histoire des trois Manuce et de leurs éditions, & supplément. 2v. 1803-12..r016.094 R34
Bibliographical sketch of the Aldine press at Venice; tr. and abridged from Renouard's Annales de l'imprimerie des Aldes, and revised and corrected by Edmund Goldsmid. 3v. in 1. 1887.....r016.094 R34b
- GROLIER CLUB, New York.
Catalogue of an exhibition of illuminated and painted manuscripts, together with a few early printed books with illuminations. 1892.....r016.096 G93
Bibliography of mss, p.57-64.
- KRISTELLER, Paul.
Early Florentine woodcuts, with an annotated list of
Florentine illustrated books. 1897.....qr016.096 K42

016.178 Bibliography of tobacco

- BRAGGE, William.
Bibliotheca nicotiana; a catalogue of books about tobacco, with a catalogue of objects connected with the use of tobacco in all its forms. 1880.....qr016.178 B68

016.2 Bibliography of religion

- HURST, John Fletcher, *comp.*
Literature of theology; a classified bibliography. 1896..r016.2 H95
- DORE, John Read.
Old Bibles; account of the early versions of the English Bible. 1888.....r016.22 D73
- STEVENS, Henry, *comp.*
Bibles in the Caxton exhibition, 1877; or, A bibliographical description of nearly 1000 representative Bibles in various languages, chronologically arranged. 1878.....r016.22 S84
- WRIGHT, John.
Early Bibles of America. 1894.....r016.22 W93
Early prayer books of America. 1896.....r016.264 W93
Bibliography, p.428-480.
- BOWERMAN, George Franklin, *comp.*
Selected bibliography of the religious denominations of the United States, with a list of the most important Catholic works of the world, as an appendix, *comp.* by J. H. McMahon. 1896.....r016.28 B66
- SMITH, Joseph, *bookseller, comp.*
Bibliotheca anti-Quakeriana; or, A catalogue of books adverse to the Society of Friends. 1873.....qr016.289 S65

D'OOGHE, Benjamin L. *comp.*

Helps to the study of classical mythology for the lower

grades and secondary schools. 1899.....r016.291 D73

Under each mythological name and legend are given references to books and magazines, subdivided as they consider the subject from the standpoint of art, religion or literature. Contains a list of books indexed, a table of contents and a very full index. Helpful for both teachers and students.

016.3 Bibliography of sociology

BOWKER, Richard Rogers, & Iles, George, *ed.*

Reader's guide in economic, social and political science.

1891.r016.3 B66

ARMOR, William Crawford, *comp.*

Scotch-Irish bibliography of Pennsylvania. 1896.....r016.325 A73

UNITED STATES—Library of Congress.

List of books, with references to periodicals, relating to the theory of colonization, government of dependencies, protectorates and related topics; comp. by A. P. C. Griffin.

1900.....r016.325 U25

FAIRCHILD, Mrs Mary Salome (Cutler), & Lord, I. E.

Scientific study of philanthropy, with Outline of study and

bibliography. 1898.....q016.33 F15

Being a reprint from the "American journal of sociology," v.3, 1898.

MAROT, Helen, *comp.*

Handbook of labor literature. 1899.....r016.33 M39

Offers the more important literature of the labor question, under specific headings, with author, publisher, price, etc. Particular attention has been given to government publications and pamphlet literature. In the annotations valuation of the books has been generally avoided, the notes simply explaining more fully than the titles, the contents of the books. The periodical literature, which is very important, has been omitted, as it is already covered by Poole's index and its continuations. Contains a list of labor periodicals.

COLLEGE SETTLEMENTS ASSOCIATION.

Bibliography of college, social, university and church settlements; comp. by Mrs C. W. Montgomery for the

College settlements association. 1900.....r016.331 C69

SAWYER, Ellen M. *comp.*

Bibliography of works on taxation in the State library of Massachusetts. 1898. (Massachusetts—State library.

Special bulletin.).....r016.336 S27

UNITED STATES—Library of Congress.

List of books, with references to periodicals, relating to

trusts; comp. by A. P. C. Griffin. 1900.....r016 U25

Bound with other pamphlets.

The same. Ed. 2 enl. 1902.....q016.338 U25

PENNSYLVANIA—State library.

Catalogue of law books; issued under the supervision of

G. E. Reed, prepared by W. W. Chisolm. 1899.....q016.34 P39

TOWER, Charlemagne.

Charlemagne Tower collection of American colonial laws.

1890.q016.34 T65

FOSTER, William Eaton, *comp.*

References to the constitution of the United States. 1890.
(Economic tracts.).....r016.342 F81

BROOKS, Robert Clarkson, *comp.*

Bibliography of municipal problems and city conditions.
1901.r016.352 B77
Published originally, with a slightly different title, as v.1, no.1 of
"Municipal affairs."
This, the 2d ed., was issued as v.5, no.1 of the same periodical.

GROSS, Charles, *comp.*

Bibliography of British municipal history, including guilds
and parliamentary representation. 1897. (Harvard his-
torical studies.).....r016.352 G93

COLUMBIA UNIVERSITY, New York—Library.

Books on education in the libraries of Columbia university.
1901. (Library bulletins, no.2.).....q016.37 C72

HALL, Granville Stanley, & Mansfield, J. M. *comp.*

Hints toward a select and descriptive bibliography of
education. 1893.....r016.37 H17
"The work is so comprehensive, and the result of such painstaking labor,
that it will be found of great value to every student and reader in the
broad field of pedagogics." *Science*.

MONROE, Will Seymour, *comp.*

Bibliography of education. 1897. (International education
series.)r016.37 M83
Does not include text-books nor references to articles in periodicals.

UNITED STATES—Education bureau.

Publications, 1867–1890, with subject index. 1891.....r016.37 U25
Reprint of chapter 35 of the Report of the commissioner of education
for 1888–89.

AMERICAN MANUAL TRAINING ASSOCIATION, *comp.*

Bibliography of manual training. 1898.....r016.371 A51

WILSON, Louis N. *comp.*

Bibliography of child study. 1898.....r016.372 W76
Appeared in the "Pedagogical seminary," v.5, p.541–589.

UNITED STATES—Library of Congress.

List of books, with references to periodicals, on mercantile
marine subsidies; comp. by A. P. C. Griffin. 1900....r016.38 U25

UNITED STATES—Documents office.

Bibliography of United States documents relating to inter-
oceanic communication across Nicaragua, Isthmus of
Panama, Isthmus of Tehuantepec, etc. 1899.....r016 U25

UNITED STATES—Library of Congress.

List of books and of articles in periodicals relating to inter-
oceanic canal and railway routes; comp. by H. A. Mor-
rison. 1900. (56th cong. 1st sess. Senate. Doc. no.59.)...r016 U25
Contents: Nicaragua route.—Panama, Darien, and the valley of the
Atrato routes.—Tehuantepec and Honduras routes.—Suez canal.
Contains, as an appendix, a revised and enlarged edition of the "Bibliog-
raphy of the United States public documents relating to interoceanic
communication," issued by the superintendent of documents.
Bound with other pamphlets.

016.4 Bibliography of language

TRÜBNER & CO.

Catalogue of dictionaries and grammars of the principal languages and dialects of the world. 1882.....r016.4 T77

BRAUNHOLTZ, Eugen Gustav Wilhelm.

Books of reference for students & teachers of French; a critical study. 1901.....r016.44 B71

016.5 Bibliography of science

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Catalogue of the Phipps scientific collection. 1893.....r016.5 C21

ROYAL SOCIETY OF LONDON, *comp.*Catalogue of scientific papers, 1800-1883. v.1-12. 1867-1902.qro16.5 R81
v.1-6. 1800-1863. v.7-8. 1864-1873. v.9-11. 1874-1883.
v.12. Supplementary volume.SCUDDER, Samuel Hubbard, *comp.*

Catalogue of scientific serials of all countries, including the transactions of learned societies in the natural, physical and mathematical sciences, 1633-1876. 1879. (Harvard university—Library. Special publications.).....r016.5 S43

UNITED STATES—Coast and geodetic survey.

Bibliography; descriptive catalogue of publications relating to the Coast and geodetic survey, 1807 to 1896, and to U.S. standard weights and measures, 1790 to 1896. 1898. (Special publication no.2.).....r016.5 U25

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Catalogue of electricity. 1895.....r016.823 C21
Bound with its "Catalogue of fiction."SCHMIDT-HENNIGER, Friedrich, *comp.*

Elektrotechnikers litterarisches auskunftsbuch; die litteratur der elektrotechnik, elektricität, elektrochemie, elektrometallurgie, des magnetismus, der telegraphie, telephonie, blitzschutzvorrichtung, Röntgen-strahlen, sowie der acetylen- und carbid-industrie der jahre 1884 bis 1900. 1900.....r016.537 S35

BOLTON, Henry Carrington, *comp.*Select bibliography of chemistry; first supplement, 1492-1897. 1899. (Smithsonian miscellaneous collections.).....r016.54 C42
The bibliography which this supplements, forms v.36 of the Smithsonian miscellaneous collections. There is a second supplement covering academic dissertations from 1492 to 1897, which forms v.41 of the same set. Both of these are in the Library, call number, r506 S66m.MARGERIE, Emmanuel de, *comp.*

Catalogue des bibliographies géologiques. 1896.....qro16.55 M38

UNITED STATES—Geological survey.

List of the publications of the survey. 1898.....r016.55 U25

The same. 1900.....r016.55 U251

IRON CITY MICROSCOPICAL SOCIETY.

Manuscript catalogue of the library of the society....qro16.578 I28

- DECAISNE, Joseph.
Catalogue de la bibliothèque de M. Decaisne. 1883....ro16.58 D35
- JACKSON, Benjamin Daydon, *comp.*
Guide to the literature of botany, including 6000 titles not
given in Pritzel's Thesaurus. 1881. (Index society.
Publications.)ro16.58 J12
- KEW GARDENS.
Catalogue of the library of the Royal botanic gardens, Kew.
1899. (Kew gardens. Bulletin of miscellaneous in-
formation, additional series.).....ro16.58 K23
- WHELDON, John, *comp.*
Botanical catalogue. 1886.....ro16.58 W61
- DEBY, Julien, *comp.*
Bibliography of the microscope and micrographic studies;
being a catalogue of books and papers in his library.
v.3. 1882.....qro16.589 D35
v.3. Diatomaceæ.
- BIBLIOGRAPHIA zoologica. v.3-date. 1898-date.....ro16.59 B47
Published as a supplement to "Zoologischer anzeiger."
- UNITED STATES—Entomology division.
Bibliography of the more important contributions to Amer-
ican economic entomology. pt.1-5, 7, in 3v. 1890-
1901.ro16.595 U25
v.1, pt.1-3. The more important writings of Benjamin Dann Walsh and
Charles Valentine Riley; comp. by Samuel Henshaw.
v.2, pt.4-5. The more important writings of government and state ento-
mologists and of other contributors to the literature of American
economic entomology; comp. by Samuel Henshaw.
v.4, pt.7. The more important writings published between Dec. 31, 1896
and Jan. 1, 1900; comp. by Nathan Banks.

016.6 Bibliography of useful arts

- HAFERKORN, Henry Ernest, & Heise, Paul, *comp.*
Handy lists of technical literature; reference catalogue of
books printed in English from 1880 to 1888; to which is
added a select list of books printed before 1880 and still
kept on publishers' and jobbers' lists. 1890-93.....ro16.6 H13
- SZCZEPANSKI, Fritz von, *ed.*
Bibliotheca polytechnica; a classified catalogue of all books,
annuals and journals published in America, England,
France and Germany, including their relation to legisla-
tion, hygiene and daily life, 1889. v.1. 1890.....ro16.6 S99
- PENNSYLVANIA HOSPITAL, Philadelphia.
Catalogue raisonné of the medical library. 1857.....ro16.61 P39
- UNITED STATES—Surgeon-general's office.
Index-catalogue of the library; authors and subjects. 1st
ser. 16v.; 2d ser. v.1-6. 1880-1901.....qro16.61 U25
- WARING, Edward John, *comp.*
Bibliotheca therapeutica; or, Bibliography of therapeutics,
chiefly in reference to articles of the materia medica. 2v.
1878-79. (New Sydenham society. Publications.)...ro16.615 W22
- AMERICAN SOCIETY OF CIVIL ENGINEERS.
Catalogue of the library, June 1900. 1900.....ro16.62 A51

- INSTITUTION OF CIVIL ENGINEERS.
Catalogue of the library. 1866.....r016.62 I24
- INSTITUTION OF MECHANICAL ENGINEERS.
Library catalogue, 1890.....r016.62 I247
- BARNETT, Claribel Ruth, *comp.*
References to the literature of the sugar beet, exclusive of works in foreign languages. 1897. (United States—Agriculture, Department of. Library bulletin no.16.)...qro16.63 B25
- CLARK, Josephine A. *comp.*
Reference list of publications relating to edible and poisonous mushrooms. 1898. (United States—Agriculture, Department of. Library bulletin no.20.).....r016.63 U25
- HASSE, Adelaide Rosalie, *comp.*
List of publications of the U. S. department of agriculture from 1841 to June 30, 1895, inclusive. 1896. (United States—Agriculture, Department of. Library bulletin no.9.).....r016.63 U25
- THOMPSON, George Fayette, *comp.*
Index to authors, with titles of their publications, appearing in the documents of the U. S. department of agriculture, 1841 to 1897. 1898. (United States—Agriculture, Department of. Bulletin of the Division of publications, no.4.).....r016.63 U25
The three preceding pamphlets are bound together.
- Index to literature relating to animal industry in the publications of the Department of agriculture, 1837-1898. 1900. (United States—Agriculture, Department of. Bulletin of the Division of publications, no.5.).....r016.63 T38
- UNITED STATES—Agriculture, Department of.
Catalogue of the periodicals and other serial publications, exclusive of U. S. government publications, in the library of the U. S. department of agriculture; prepared under the direction of J. A. Clark. 1901. (Library bulletin no.37.).....r016.63 U25c
- List of publications relating to forestry in the department library. 1898. (Library bulletin no.24.).....r016.63 U25
- Supplement to the general index of the agricultural reports for 1877 to 1885, inclusive.....r016.63 U25
Bound with the above.
- UNITED STATES—Experiment stations office.
Some books on agriculture and sciences related to agriculture published 1896-1898. 1898. (Circular no.38.)...r016.63 U253
- BOWKER, Richard Rogers, *comp.*
Handy list of American publishers, as entered in the American catalogue, 1884-90. 1890.....r016.655 B66
- CASPAR, Carl Nicolaus, *comp.*
Caspar's directory of the American book, news and stationery trade. 1889.....qro16.655 C25
- HOE, Richard March.
Literature of printing; a catalogue of the library illustrative of the history and art of typography of R. M. Hoe. 1877.r016.655 H67

LEE, John W. M. *comp.*

Bibliography of the Baltimore and Ohio rail road company,
1827 to 1879. 1879.....ro16.656 L53

GARÇON, Jules, *comp.*

Répertoire général, ou dictionnaire méthodique de bibliographie des industries tinctoriales et des industries annexes, depuis les origines jusqu'à la fin de l'année 1896; technologie et chimie. 3v. 1900-01.....qro16.66 G17
v.1. Introduction et avertissement général.—Notice sur les sources bibliographiques du dictionnaire.—Tables.
v.2. Accidents de fabrication.—Kermès.
v.3. Laboratoire.—Zinc.

016.7 Bibliography of fine arts

HESSLING, Bruno, *pub.*

Verlagskatalog. 1899.....qro16.7 H49

HIERSEMANN, Karl W. *comp.*

New series of catalogues [no.108-115]; the fine arts; books and prints on sale by K. W. Hiersemann. 1893.....ro16.7 H52

ILES, George, *ed.*

Annotated bibliography of fine art. 1897.....qro16.7 I22
Contents: Painting, sculpture, architecture, arts of decoration and illustration, by Russell Sturgis.—Music, by H. E. Krehbiel.

LEWINE, J. *comp.*

Bibliography of 18th century art and illustrated books; a guide to collectors of illustrated works in English and French of the period. 1898.....ro16.7 L67

016.72 Bibliography of architecture

BATSFORD, Herbert, *comp.*

Reference books on architecture and decoration, with hints on the formation of an architectural library. 1895..bo16.72 B31

BOSTON—Public library.

Catalogue of the books relating to architecture, construction and decoration in the library, Nov. 1, 1894. 1894..qbo16.72 B64

CARNEGIE LIBRARY OF PITTSBURGH.

Catalogue of the J. D. Bernd department of architecture. 1898.bo16.72 C21

COLUMBIA UNIVERSITY, New York—Library.

Catalogue of the Avery architectural library; a memorial library of architecture, archæology and decorative art. 1895.qbo16.72 C72

LIVERPOOL, England—Free public libraries.

Hand-list of books on architecture in the Reference department. 1894.....bo16.72 L74

Hand-list of books on the decorative arts in the Reference department. 1899.....bo16.72 L74
Bound with the above.

016.78 Bibliography of music

- BECKER, Carl Ferdinand, *comp.*
Systematisch-chronologische darstellung der musikalischen
literatur. 2v. in 1. 1836-39.....qro16.78 B36
Die tonwerke des 16. und 17. jahrhunderts. 1855.....qro16.78 B36t
- BREITKOPF & HÄRTEL, *pub.*
Verzeichniss des musikalien-verlages von Breitkopf &
Härtel. 1875.....ro16.78 B72
- BURNEY, Charles.
Catalogue of his library; sold by auction, June 1814.
1814.ro16.78 B93
The prices at which the books were sold are given in ink on the margins.
- ENGEL, Carl, *comp.*
Descriptive catalogue of the musical instruments in the
South Kensington museum. 1874.....qro16.78 E63
- ENGEL, Carl.
Literature of national music. 1879.....ro16.78 E63l
"A reprint of an essay published in instalments from July, 1878, to
March, 1879, in The Musical Times of London, [v.19]. It is to be
commended to the student of folk-music as an aid in the most diffi-
cult feature of his study—the procurement of evidence and authori-
ties." *H. E. Krehbiel.*
- FORKEL, Johann Nicolaus, *comp.*
Allgemeine literatur der musik. 1792.....ro16.78 F77
- HANDBUCH der musikalischen litteratur. 6v. in 1.
1818-23.ro16.78 H23
- MATTHEW, James Ebenezer.
Literature of music. 1896. (Book-lover's library.)....ro16.78 M47
- RIANO, Juan Facundo.
Critical and bibliographical notes on early Spanish music.
1887.ro16.78 R38

Bibliography of fine arts—Miscellaneous

- GAYLEY, Charles Mills, & Scott, F. N. *comp.*
Guide to the literature of æsthetics. 1890.....ro16.701 G25
- NEW YORK (city), PUBLIC LIBRARY.
Handbook of the S. P. Avery collection of prints and art
books in the New York public library. 1901.....ro16.76 N26
- SINGER, Hans Wolfgang, *comp.*
Sammlung Lanna Prag; das kupferstichkabinet wissen-
schaftliches verzeichniss. 2v. 1895.....ro16.76 S61
- LOWE, Robert W. *comp.*
Bibliographical account of English theatrical literature,
from the earliest times to the present day. 1888....ro16.792 L95
"Deals with theatrical literature: the wider field of dramatic literature
being touched upon only when in direct connection with theatres or
actors. Thus the mass of critical and speculative Shakespearean litera-
ture is excluded; and plays find no place in my scheme except where
there is published with them historical or critical matter." *Preface.*

WESTWOOD, Thomas, & Satchell, Thomas, *comp.*

Bibliotheca piscatoria; a catalogue of books on angling,
the fisheries and fish-culture, with bibliographical notes.

1883.ro16.799 W57

or16.8 Bibliography of literature

COLUMBIA UNIVERSITY, New York—Library.

List of books chiefly on the drama and literary criticism.

1897. (Publications, no.1.).....qro16.8 C72

DIXSON, Mrs Zella (Allen), *comp.*

Comprehensive subject index to universal prose fiction.

1897.ro16.8 D64

This work by the associate librarian of the University of Chicago is an arrangement into an alphabetical subject list of works of fiction, foreign as well as English, which are founded on fact, historical, physical, psychological or moral. It does not, however, include works founded on fact where the facts have been so misrepresented as to mislead rather than to inform the reader.

GAYLEY, Charles Mills, & Scott, F. N.

Introduction to the methods and materials of literary criticism, the bases in aesthetics and poetics. 1899.....o16.8 G25

Contents: Nature and function of literary criticism.—Principles of art.—Principles of literature.—The theory of poetry.—The principles of versification.

"For libraries and for all students of the subject it will prove an invaluable book of reference. This is an age of bibliographies, but we need more bibliographies prepared, as this is, by specialists who are competent to estimate, classify, and report on the books listed. The plan here pursued involves a discussion of methodology, statement of problems, subdivision of topics, and a classified and annotated bibliography under each of the general heads." *Nation*, 1899.

INDIANAPOLIS—Public library.

Finding-list of books in the classes of poetry and the

drama, literature and polygraphy. 1891.....qro16.823 I24

Bound with other pamphlets.

BROWN UNIVERSITY—Library.

Catalogue of American poetry; duplicates from the Harris-

Anthony collection in Brown university, to be sold at

auction, April 10-12, 1901.qro16.81 B78

FOLEY, Patrick Kevin, *comp.*

American authors, 1795-1895; a bibliography of first and

notable editions, chronologically arranged. 1897....ro16.81 F71

STOCKBRIDGE, John Calvin, *comp.*

The Anthony memorial; a catalogue of the Harris col-

lection of American poetry, with biographical and bib-

liographical notes. 1886.....qro16.81 S86

WEGELIN, Oscar, *comp.*

Early American fiction, 1774-1830; a compilation of the

titles of American novels written by writers born or

residing in America and published previous to 1831.

1902.ro16.813 W43

HODGKINS, Louise Manning.

Guide to the study of 19th century authors. 1898.....ro16.82 H66

Contents: Scott.—Lamb.—Wordsworth.—Macaulay.—Coleridge.—Shelley.—Keats.—Byron.—Thackeray.—Dickens.—Mrs Browning.—Brown-
ing.—Tennyson.—Rossetti.—Eliot.—Carlyle.—Ruskin.—Arnold.—Irv-
ing.—Bryant.—Hawthorne.—Emerson.—Longfellow.—Whittier.—
Holmes.—Lowell.

- JAMES, Charles Canniff, *comp.*
 Bibliography of Canadian poetry (English). 1899. (Victoria university library. Publications, v.1.).....r016.821 J16
- BATES, Katharine Lee, & Godfrey, L. B. *comp.*
 English drama; a working basis. 1896.....r016.822 B31
- GREG, Walter Wilson, *comp.*
 List of English plays written before 1643 and printed before 1700. 1900.....r016.822 G86
- BOSTON—Public library.
 Catalogue of English fiction and books for the young. 1893.q016.823 B64
- BOWEN, Herbert Courthope, *comp.*
 Descriptive catalogue of historical novels. 1882.....r016.823 B66
- BROOKLINE, Mass.—Public library.
 Catalogue of English prose fiction, Jan. 1895. 1895.....r016.823 B77
The same, Jan. 1901. 1901.....r016.823 B77c
- CARNEGIE FREE LIBRARY, Allegheny, Pa.
 Catalogue of fiction; authors, titles. 1895.....r016.823 C21
 Catalogue of fiction, including folk-lore, mythology and juvenile books. 1895.....r016.823 C21
 Catalogue of French books. 1895.....r016.823 C21
 Catalogue of German books. 1895.....r016.823 C21
 These four catalogues are bound together.
- CARNEGIE LIBRARY OF PITTSBURGH.
 Catalogue of English prose fiction. 1898.....r016.823 C216
- GRISWOLD, William MacCrillis, *comp.*
 Descriptive list of novels dealing with ancient history. 1895.r016.823 G93de
 Descriptive list of novels dealing with the history of North America. 1895.....r016.823 G93d
 This is the peculiar spelling adopted for a time by the author.
 Descriptive list of British novels. 1891.....r016.823 G93
 Descriptive list of international novels. 1891.....r016.823 G93
 Descriptive list of novels dealing with American city life. 1891.r016.823 G93
 Descriptive list of novels dealing with American country life. 1890.....r016.823 G93
 Descriptive list of novels dealing with life in France. 1892.r016.823 G93
 Descriptive list of novels dealing with life in Germany. 1892.r016.823 G93
 Descriptive list of novels dealing with life in Italy. 1892..r016.823 G93
 Descriptive list of novels dealing with life in Norway. 1892.r016.823 G93
 Descriptive list of novels dealing with life in Russia. 1892.r016.823 G93
 Descriptive list of romantic novels. 1890.....r016.823 G93
 The above 10 pamphlets are bound together.
- HARTFORD—Public library.
 Author-list of all novels, short stories, selections and humorous works, also of all other books added during 1892. 1893.r016.823 H32

- INDIANAPOLIS—Public library.
 Finding-list of books in the classes of English prose fiction
 and juvenile fiction. 1892.....qro16.823 I24
- NEW BEDFORD, Mass.—Free public library.
 Catalog of English prose fiction, Aug. 1, 1895. 1895...ro16.823 N26
- SALEM, Mass.—Public library.
 Class list no.1; fiction. 1895.....ro16.823 S16
- SAN FRANCISCO FREE PUBLIC LIBRARY.
 Classified English prose fiction, including translations and
 juvenile works. 1891.....qro16.823 S22
- CARNEGIE FREE LIBRARY, Allegheny, Pa.
 Catalogue of German fiction. 1897.....ro16.833 C21c
- KLEMMING, Gustaf Edvard, *comp.*
 Sveriges dramatiska litteratur till 1875; bibliografi.
 1863-79.ro16.839 K31
- BOSTON—Public library.
 Catalogue of the Spanish library and of the Portuguese
 books bequeathed by George Ticknor to the library.
 1879.qro16.86 B64
- MEADER, Clarence Linton, *ed.*
 List of books recommended for a high school classical li-
 brary by a committee of the Michigan schoolmasters'
 club, 1897.....o16.87 M55
The same. 1897.....ro16.87 M55

o16.9 Bibliography of geography and history

Bibliography of geography

- BOUCHER de la RICHARDERIE, Gilles, *comp.*
 Bibliothèque universelle des voyages; ou, Notice raisonnée
 de tous les voyages anciens et modernes, avec des ex-
 traits. 6v. 1808.....ro16.91 B65
- MILL, Hugh Robert, *comp.*
 Hints to teachers and students on the choice of geographi-
 cal books for reference and reading, with classified lists.
 1897.ro16.91 M68
- RITCHIE, John, *comp.*
 List of the books in the English language on travel, ex-
 ploration and mountaineering, published within the year
 ending Aug. 31, 1897. 1897. (Boston scientific society.
 Occasional publications, no.2.).....ro16.91 R49
- ROYAL GEOGRAPHICAL SOCIETY.
 Classified catalogue of the library to Dec. 1870. 1871....ro16.91 R81
- UNITED STATES—Library of Congress.
 Alaska and the northwest part of North America, 1588-
 1898; maps in the Library of Congress; comp. by P. L.
 Phillips. 1898.....ro16 U25
 Bound with other pamphlets.
 List of maps and views of Washington and District of

- Columbia in the Library of Congress; comp. by P. L. Phillips. 1900. (56th cong. 1st sess. Senate. Doc. no.154.)r016 U25
Bound with other pamphlets.
- List of maps of America in the Library of Congress, preceded by a list of works relating to cartography, by P. L. Phillips. 1901.....q016.912 U25

Bibliography of history

- ADAMS, Charles Kendall.
Manual of historical literature. 1889.....r016.9 A21
- INDIANAPOLIS—Public library.
Finding-list of books in the classes of biography, history and travels. 1890.....q016.823 I24
Bound with other pamphlets.

016.942 Bibliography of English history

- ALLEN, William Francis, *comp.*
Reader's guide to English history, with supplement extending the plan to other countries. 1898.....r016.942 A42
- GARDINER, Samuel Rawson, & Mullinger, J. B.
Introduction to the study of English history. 1894....r016.942 G17
- GROSS, Charles, *comp.*
Sources and literature of English history, from the earliest times to about 1485. 1900.....r016.942 G93
A systematic survey of the printed materials relating to the political, legal, social and economic history of England, Wales and Ireland. Scotland, except as she influenced the course of English history, is omitted, because in the period considered her government and institutions were entirely foreign to those of England. Material which is worthless or obsolete is omitted, and most space is devoted to original sources. Many brief explanatory and critical notes increase the value of this work which the London "Athenæum" (1900) considers "second to no bibliography of national history in the world."
- JOHNSTON, William Dawson, *comp.*
Annotated titles of books on English history published in 1897-1899. 3v. in 1. 1898-1900.....q016.942 J37

016.97 Bibliography of American history

- BIBLIOTHECA Americana; a catalogue of a valuable collection of books and pamphlets illustrating the history & geography of North & South America and the West Indies; on sale by A. R. Smith. 1874.....r016.97 B47
- BOON, E. P.
Catalogue of books and pamphlets principally relating to America. 1870.....r016.97 B63
- BRINLEY, George.
Catalogue of his American library, with index. 6v. 1878-93.r016.97 B75
- CLARKE, (Robert), & CO. *pub.*
Bibliotheca Americana; catalogue of a valuable collection of books and pamphlets relating to America, 1876, 1878, 1879, 1893. 4v. in 2. 1876-93.....r016.97 C53

DEANE, Charles.

Catalogue of the private library of Charles Deane; comprising a collection of rare Americana, including early voyages and discoveries, to be sold at auction, March 1898. 2v. in 1. 1898.....r016.97 D34
A pamphlet, giving the prices realized at the sale, is bound with the catalogue.

FIELD, Thomas Warren.

Catalogue of his library. 1875.....r016.97 F45
Collection of books relative to the American Indians.

GEORGE, (William), SONS, *pub.*

New World book list. 1900.....r016.97 G31
Annotated sale catalogue of Americana.

GRIFFIN, Appleton Prentiss Clark, *comp.*

Bibliography of American historical societies. 1896....r016.97 G89
From the annual report of the American historical association for 1895.

GROLIER CLUB, New York.

Catalogue of early printed books relating to America, exhibited at the Grolier club, 1888. 1888.....r016.97 G93

HARPER, Francis Parego.

Bibliotheca Americana; priced catalogue of a remarkable collection of scarce and out-of-print books relating to the discovery, settlement and history of the western hemisphere; offered for sale by Francis P. Harper. 1901..r016.97 H28

LARNED, Josephus Nelson, *ed.*

Literature of American history; a bibliographical guide in which the scope, character and comparative worth of books in selected lists are set forth in brief notes by critics of authority. 1902. (American library association annotated lists.).....q016.97 L32
"Sources," p.1-20.

LECLERC, Charles, *comp.*

Bibliotheca Americana; histoire, géographie, voyages, archéologie et linguistique des deux Amériques et des Iles Philippines. 1878.....q016.97 L49

PERKINS, Frederic Beecher, *comp.*

Check list for American local history, reprinted with additions from the bulletins of the Boston public library. 1876.....r016.97 P43

SABIN, Joseph, *comp.*

Catalogue of the books, manuscripts and engravings belonging to William Menzies of New York. 1875....r016.97 S11c
Dictionary of books relating to America. v.1-20. 1868-91..r016.97 S11

SMITH, John Russell, *comp.*

Bibliotheca Americana; a catalogue of books, pamphlets, manuscripts, maps, engravings and engraved portraits illustrating the history and geography of North and South America and the West Indies, on sale by J. R. Smith. 1865.....r016.97 S65

STEVENS, Henry, *comp.*

Bibliotheca historica; or, A catalogue of books and manuscripts relating to the history and literature of North and South America. 1870.....r016.97 S84b

- Catalogue of the first portion of the collections of rare books and manuscripts relating to the history and literature of America, sold by Sotheby, Wilkinson & Hodge. 1881. (Stevens's historical collections.).....qro16.97 S84
Includes "Lot 1269, Mr Henry Stevens's Franklin collection of manuscripts and printed books," p.159-176.
- Historical nuggets; bibliotheca Americana; or, A descriptive account of my collection of rare books relating to America. 2v. 1862.....ro16.97 S84h
- TERNAUX-COMPANS, Henri, *comp.*
Bibliothèque américaine; ou, Catalogue des ouvrages relatifs à l'Amérique qui ont paru depuis sa découverte jusqu'à 1700. 1837.....qro16.97 T31
- WRIGHT, James Osborne, *comp.*
Catalogue of the American library of S. L. M. Barlow. 1889.qro16.97 W93
- GAGNON, Philéas.
Essai de bibliographie canadienne; inventaire d'une bibliothèque comprenant imprimés, manuscrits, estampes, etc. relatifs à l'histoire du Canada et des pays adjacents, avec des notes bibliographiques. 1895.....qro16.971 G13
- WRONG, George McKinnon, & Langton, H. H. *ed.*
Review of historical publications relating to Canada, 1896-date. v.1-date. 1897-date. (Toronto university. Studies in history.).....qro16.971 W94
- UNITED STATES—Library of Congress.
List of books relating to Cuba, including references to collected works and periodicals; comp. by A. P. C. Griffin, with Bibliography of maps, by P. L. Phillips. 1898. (56th cong. 2d sess. Senate. Doc. no.161.).....ro16 U25
Bound with other pamphlets.
- List of books, with reference to periodicals, on Porto Rico; comp. by A. P. C. Griffin. 1901.....qro16.972 U25
Bound with the following.
- List of books, with references to periodicals, on the Danish West Indies; comp. by A. P. C. Griffin. 1901.....qro16.972 U25
- o16.973-o16.977 Bibliography of United States history
- GRIFFIN, Appleton Prentiss Clark, *comp.*
Index of the literature of American local history in collections published in 1890-1895. 1896.....ro16.973 G89
"This index supplements that contributed by the compiler to the *Bulletins* of the Public Library of the City of Boston, and published in 1889 as a volume of the *Bibliographies of Special Subjects* of that institution." *Preface.*
- LUDEWIG, Hermann Ernst, *comp.*
Literature of American local history. 1846.....ro16.973 L97
- SPARKS, Edwin Erle, *comp.*
Topical reference lists in American history, with lists in English constitutional history. 1900.....o16.973 S73
The same. 1900.....ro16.973 S73

WINSOR, Justin, *comp.*

Reader's handbook of the American revolution. 1893...ro16.973 W79

"An admirable little guide-book for the use of students of the Revolutionary period of our history. Beginning at the time of the first discontents with British rule, the author indicates where the best information on each point is to be gathered." *C. K. Adams.*

FLAGG, Charles Allcott, & Jennings, J. T. *comp.*

Bibliography of New York colonial history. 1901.

(New York (state)—Library. Bulletin; bibliography, no.24.)ro16.974 F59

GILMAN, Marcus Davis, *comp.*

Bibliography of Vermont. 1897.....qro16.974 G42

GRIFFIN, Appleton Prentiss Clark, *comp.*

Bibliography of the historical publications issued by the

New England states. 1895.....ro16.974 G89b

Reprinted from the "Publications of the Colonial society of Massachusetts," v.3.

PENNSYLVANIA—State library.

Check-list of Pennsylvania county, town and township histories, 1794-1892. 1892.....ro16.974 P39

THOMSON, Peter G. *comp.*

Bibliography of Ohio, with prices at which many of the books have been sold since 1860. 1880.....qro16.977 T38

Bibliography of history—Miscellaneous

GUIGARD, Joannis, *comp.*

Bibliothèque héraldique de la France. 1861.....ro16.929 G96

GOODRICH, Arthur L.

Topics on Greek history; intended for use in secondary schools. 1898.....ro16.938 G62

List of authors and their works, p.5-8; "Historical fiction, tales, poetry and drama relating to ancient Greece," p.51-52.

Presents a full and systematic scheme for the study of Greek history by the topical method, each topic being accompanied by ample references.

CORNELL UNIVERSITY—Library.

Catalogue of the historical library of Andrew Dickson

White. 2v. in 1. 1889-94.....qro16.94 C82

v.1. The Protestant reformation and its forerunners.

v.2. The French revolution.

GETCHELL, Merle Smith.

The study of mediaeval history by the library method.

1897.ro16.94 G33

A series of references to the historical literature relating to the middle ages, arranged by periods.

QUARITCH, Bernard, *pub.*

Catalogue of medieval literature, especially of the romances

of chivalry and books relating to the customs, costume, art and pageantry of the middle ages. 1890.....qro16.94 Q18f

FÖRSTER, F.

Kritischer wegweiser durch die neuere deutsche historische litteratur, für studierende und freunde der geschichte.

1900.ro16.943 F78

WENCKSTERN, Friedrich von, comp.

Bibliography of the Japanese empire; being a classified list of books, essays and maps, in European languages, relating to Japan, published from 1859-93, to which is added a facsimile-reprint of Leon Pagès *Bibliographie japonaise*. 1895.....qro16.95 W51

UNITED STATES—Library of Congress.

List of books relating to Hawaii, including references to collected works and periodicals; comp. by A. P. C. Griffin. 1898.....ro16 U25
Bound with other pamphlets.

List of books, with references to periodicals, on Samoa and Guam. 1901.....qro16.996 U25

o17 Library and sale catalogues—Classed catalogues

BIRMINGHAM, England—Free libraries.

Catalogues of various branches of the Birmingham free libraries. 1890-97.....ro17.1 B48

BOSTON—Public library.

Annual list of new and important books added to the library, selected from the Monthly bulletins, 1896-date.
v.1-date. 1898-date.....qro17.1 B64a
Bulletins, Oct. 1867-date. v.1-date. 1871-date.....qro71.1 B64
v.1, no.2 wanting.
Finding list of books in the West End branch, Jan. 1896.
1896.qro17.1 B64f

BUFFALO LIBRARY.

Finding-list of books and pamphlets, Aug. 1885-July 1896.
3v. in 1. 1885-96.....ro17.1 B86
v.1. History, politics, biography, geography, travel and anthropology.
v.2. Belles-lettres, with language, bibliography and general reference books.
v.3. Science and arts, philosophy, religion, social science (except politics) and local history.

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Classified catalogue of the books, except fiction, French and German. 1895.....ro17.1 C21
—Supplement, no.1. 1898.

ENOCH PRATT FREE LIBRARY, Baltimore.

Finding list of books and periodicals in the branch libraries,
July 1895. 1895.....ro17.1 E65

ERIE—Public library.

Finding list. 1900.....ro17.1 E74

KRUPP'SCHE BUCHERHALLE.

Bücherverzeichniss. 1899.....ro17.1 K42

LOWELL, Mass.—City library.

Bulletin, Oct. 1896-date. v.1-date. 1896-date.....ro17.1 L95

MILWAUKEE—Public library.

Systematic catalogue. 1885-86.....qro17.1 M72

- MOUNT VERNON, N. Y.—Public library.
Class catalogue and author index. 1898.....r017.1 M94
- NEVINS MEMORIAL LIBRARY, Methuen, Mass.
Catalogue. 2v. 1887.....qro17.1 N25
- NEW YORK (state)—Library.
Bulletin, additions, no.1-4, 1891-96. 3v. 1891-97.....qro17.1 N261
- NEW YORK (city) PUBLIC LIBRARY.
Bulletin, 1897-date. v.1-date. 1897-date.....qro17.1 N2611
- NEWARK, N. J.—Free public library.
Finding list; 2d supplement, books added 1893-1896. 1896..r017.1 N26
- OSTERHOUT FREE LIBRARY, Wilkes-Barre, Pa.
Class catalogue and author index. 1889.....r017.1 O29
The same; first supplement, 1889-1895. 1895.....r017.1 O29c
- PENNSYLVANIA—State library.
Catalogue. 1873.....r017.1 P39
pt.1. Law books and state papers.
pt.2. Miscellaneous books.
- PROVIDENCE, R. I.—Public library.
Monthly bulletin. v.1-5. 1895-99.....qro17.1 P97
- SALEM, Mass.—Public library.
Bulletin. v.1-5. 1893-1901.....qro17.1 S16
- SAN DIEGO, Cal.—Free public library.
Finding list, 1895. 1895.....r017.1 S21
- SCRANTON, Pa.—Public library.
Finding list of the circulating department, Jan. 1893.
1893.qro17.1 S43
The same; first supplement, Aug. 1894. 1894.....qro17.1 S43
Bound with the above.
- BOOK-PRICES current; a record of the prices at which
books have been sold at auction, Dec. 1886-date. v.1-
date. 1888-date.....r017.3 B63
—Index, v.1-10, 1887-1896. 1901.
- DAUZE, Pierre, *comp.*
Index biblio-iconographique, 1894-1898. 5v. 1895-1901..qro17.3 D28
v.3-5 title reads "Index bibliographique."
No more published.
- LIVINGSTON, Luther S. *comp.*
American book-prices current, 1895-date. v.1-date. 1895-
date.r017.3 L74
- SCOTT, Temple, *comp.*
Book sales, 1895-1898; a record of the most important
books sold at auction. 4v. 1896-99.....r017.3 S43
No more published.
- VOYNICH, W. M. & Edgell, M. A.
A first list of books offered for sale. 1898.....r017.4 V39
Contents: Americana before 1550. — Americana after 1550. — Asiatic
presses. — Bibles and Testaments. — Chess. — Condemned and burned
books. — Cookery. — English books before 1640. — Music. — Occult
sciences, palmistry, etc. — Poland. — Reformation and reformers. — Early
printing before 1500. — Early printing from 1500 to 1525.

018 Library and sale catalogues—Author catalogues

ASTOR LIBRARY, New York.

Catalogue and supplement. 5v. 1857-66.....qro18.1 A85

BRITISH MUSEUM.

Catalogue of printed books. 81v. 1881-1900.....qro18.1 B75

The same; supplement. 11v. 1900-05.....qro18.1 B75s

GRIFFIN, Appleton Prentiss Clark, *comp.*

Catalogue of the Washington collection in the Boston

Athenæum, with the inventory of Washington's books

drawn up by the appraisers of his estate, and the later

history and present ownership of those not in the Athe-

næum collection, by W. C. Lane. 2v. 1897-1900.....ro18.1 G89

v.2 is the index, compiled by F. O. Poole.

LENOX LIBRARY, New York.

Duyckinck collection. v.2.....ro18.1 L61

LONDON LIBRARY, London.

Catalogue and appendix; comp. by Robert Harrison. 2v.

1888.....qro18.1 L82

Appendix contains lists of contents of long sets and of works printed
by societies.

Report and List of books added, 1887/88, 1890/91-1893/94,

1896/97, 1898/99. 1888-99.....ro18.1 L82r

Report for 1896/97 and 1898/99 wanting.

MERCANTILE LIBRARY ASSOCIATION, Pittsburgh.

Catalogue; comp. by G. E. Appleton. 1866.....ro18.1 M63

MICHIGAN—State library.

Catalogue; United States documents, state documents, for-

eign exchanges. 1898.....ro18.1 M66

MILWAUKEE—Public library.

Finding list of the circulating department; author list, May

1896. 1896.....qro18.1 M72

PENNSYLVANIA—State library.

Catalogue, with supplements for 1860-61. 1859-62.....ro18.1 P39

The same, 1878. 2v. 1878.....qro18.1 P391

The same, 1859. 1859.....ro18.1 P392

SCRANTON, Pa.—Public library.

Author list of books, Aug. 1894. 1894.....qro17.1 S43

SYDNEY, PUBLIC LIBRARY OF NEW SOUTH WALES.

Current supplement to the catalogue, for 1896-98; reference

department. 1899.....qro18.1 S98

UNITED STATES—Library of Congress.

Alphabetical catalogue; authors. 1864.....qro18.1 U253

Catalogue of books added, 1866-1869. 3v. 1868-70.....qro18.1 U253c

UNITED STATES—War department.

Alphabetical list of additions made to the library, May

1884-June 1891. 1891.....qro18.1 U25

DALY, Augustin.

Catalogue of the literary and art property gathered by Augustin Daly; to be disposed of at public sale March 19th, 1900 and following days. v.2. 1900.....qro18.2 D17
v.2. Books.

FRENCH, Frederick William.

Catalogue of the collection of dramatic and literary autographs of the late Frederick W. French; to be sold by auction May 2-3, 1901. 1901.....ro18.2 F92

Catalogue of the collection of modern etchings and engravings, rare old mezzotint portraits, miniatures on ivory, water colors, original drawings and oil paintings; to be sold by auction May 10, 1901. 1901.....ro18.2 F92

Catalogue of the library of Frederick W. French of Boston; sold by auction April 23-25, 1901. 1901.....ro18.2 F92
These three catalogues are bound together.

IVES, Brayton.

Catalogue of his collection of books and manuscripts; comprising early printed books, Americana, illustrated French books, works of standard authors, classical manuscripts, missals and books of hours; to be disposed of by auction March 5-7, 1891. 1891.....qro18.2 I33
The prices which the books brought at the auction are marked in the margins.

PHILES, George Philip, *comp.*

Bibliotheca curiosa; catalogue of the library of A. J. Odell.
2v. in 1. 1878-80.....qro18.2 P49

BECKFORD, William.

Valuable library of books in Fonthill abbey; a catalogue of the library, sold by auction 1823. 1823.....ro18.3 B36

BOUTON, James Warren, *pub.*

Catalogue of typographical rarities and literary treasures, 1889. v.84. 1889.....ro18.3 B65

BRÖCKHAUS, Friedrich Arnold.

Vollständiges verzeichniss der von der firma F. A. Brockhaus in Leipzig 1805-1872 verlegten werke. 1872-75..ro18.4 B76

LONGMANS, GREEN & CO. *comp.*

General list of books in various branches of literature, published and for sale by Longmans, Green & co. 1896..ro18.4 L83

McDONOUGH, Joseph, *comp.*

Catalogues of second-hand books, no.92-107. 1894-95....ro18.4 M14

MACMILLAN & CO. *comp.*

Bibliographical catalogue of Macmillan and co.'s publications, 1843-1889. 1891.....ro18.4 M21

019 Library and sale catalogues—Dictionary catalogues

ADVOCATES LIBRARY, Edinburgh.

Catalogue of the printed books, with supplement. 7v. in 9. 1863-79.qro19.1 A24

BIRMINGHAM, England—Free libraries.

Catalogue of the reference department, 1869.....r019.1 B4f

The same, 1875-79.....r019.1 B48ca*The same*, 1880.....r019.1 B48c*The same*, 1883-1890.....qr019.1 B48ca1**BOSTON—Public library.**

Index to the catalogue of books in the upper hall. 1861...qr019.1 B644

The same; first supplement. 1866.....qr019.1 B644**BOSTON ATHENÆUM LIBRARY.**

Catalogue, 1807-71. 5v. 1874-82.....qr019.1 B64

BROOKLYN LIBRARY, Brooklyn, N. Y.

Analytical and classed catalogue. 1878-80.....qr019.1 B77

CARNEGIE LIBRARY OF PITTSBURGH.

Catalog of books. 1895.....r019.1 C21

CLEVELAND—Public library.

Alphabetic catalogue of the English books in the circulating department. 1889.....qr019.1 C5f

EDINBURGH—Public library.

Catalogue of books in the lending library. 1891.....r019.1 E284

Catalogue of books in the reference library, with supplement. 2v. 1891-94.....r019.1 E2f

GUILLE-ALLÈS LIBRARY, Guernsey.

Encyclopædic catalogue of the lending department.....r019.1 G9f

JERSEY CITY, N. J.—Free public library.

Alphabetical finding-list, with 1st-2d supplement. 1893...qr019.1 J2f

LEWISHAM, England—Public libraries.

Catalogue of the lending department of the Perry Hill branch library. 1896.....r019.1 L67

LONG ISLAND HISTORICAL SOCIETY.

Catalogue of the library, 1863-1893. 1893.....qr019.1 L8:

NEW HAVEN, Conn.—Free public library.

Supplement to catalogue part 1, 1892-1895. v.1-2, in 1.

1894-95.....qr019.1 N2f

NEW YORK (city), YOUNG MEN'S CHRISTIAN ASSOCIATION—Library.

Catalogue; circulating department, July 1900. 1901...qr019.1 N26

PASSAIC, N. J.—Free public library.

Alphabetic catalogue; authors, subjects and titles, Nov.

1895. 1895.....r019.1 P2f

PEABODY INSTITUTE, Baltimore.

Catalogue of the library. 5v. 1883-92.....qr019.1 P3:

The same; second catalogue. v.1-6. 1896-1902.....qr019.1 P33**REYNOLDS LIBRARY, Rochester, N. Y.**

Reference catalogue. 1898.....qr019.1 R3:

WISCONSIN HISTORICAL SOCIETY.

Catalogue of the library. v.1-7. 1873-87.....r019.1 W81

v.1-2. 1873.

v.3. 1873-75.

v.4. 1875-78.

v.5. 1878-81.

v.6. 1881-84.

v.7. 1884-87.

BOHN, Henry George, *comp.*

Catalogue of books. 1841.....r019.4 B59

020 Library economy

AMERICAN LIBRARY ASSOCIATION.

Library tracts. v.1, no.1-4. 1900-02.....r020 A51

v.1 (no.1-4). Why do we need a public library?—How to start a public library, by G. E. Wire. — Traveling libraries, by F. A. Hutchins. — Library rooms and buildings, by C. C. Soule.

HESSE, Léopold Auguste Constantin, (*pseud.* L. A. Constantin).

Bibliothéconomie; ou, Nouveau manuel complet pour l'arrangement, la conservation et l'administration des bibliothèques. 1841.....r020 H48

MAIRE, Albert.

Manuel pratique du bibliothécaire. 1896.....r020 M26

SPOFFORD, Ainsworth Rand.

Book for all readers; an aid to the collection, use and preservation of books, and the formation of public and private libraries. 1900.....020 S76

The same. 1900.....r020 S76

WORLD'S LIBRARY CONGRESS.

Papers prepared for the congress held at the Columbian exposition; ed. by Melvil Dewey. 1896.....r020 W89

Reprint of part of the Report of the commissioner of education for 1892/1893.

DANA, John Cotton.

Library primer. 1899.....020.2 D19

The same. 1900.....r020.2 D19

Considers the subject of library management for the small library. Covers selection, buying and care of books, cataloguing, binding, mending, etc. Contains signed articles by well-known library workers. There are several useful bibliographies, and lists of reference books and periodicals for a small library.

DENVER—Public library.

Public library hand-book. 1895.....020.2 D43

The same. 1895.....r020.2 D43

PLUMMER, Mary Wright.

Hints to small libraries. 1894.....r020.2 P72

The same. 1898.....r020.2 P72h*The same.* 1902.....r020.2 P72h2

GARNETT, Richard.

Essays in librarianship and bibliography. 1899. (Library series.)020.4 G19

Contents: Address to the Library association.—Public libraries and their catalogues.—The printing of the British museum catalogue.—The past, present and future of the British museum catalogue.—The British museum catalogue as the basis of a universal catalogue.—Introduction

of European printing into the East.—Paraguayan and Argentine bibliography.—The early Italian book trade.—Some book-hunters of the 17th century.—Librarianship in the 17th century.—The manufacture of fine paper in England in the 18th century.—On some colophons of the early printers.—On the system of classifying books on the shelves followed at the British museum.—Subject-indexes to transactions of learned societies.—Photography in public libraries.—The telegraph in the library.—On the protection of libraries from fire.—The sliding-press at the British museum.—On the provision of additional space in libraries.—Preface to Blades' "Enemies of books."—Sir Anthony Panizzi.—John Winter Jones.—Henry Stevens.—Sir Edward A. Bond.

- CENTRALBLATT für bibliothekswesen; monthly. v.14—
date. 1897—date.....r020.5 C3a
The same; beihefte. v.7—date. 1897—date.....qr020.5 C32b
v.7. Milkau, Fritz. Centralkataloge und titeldrucke.—Heiland, Karl. Die Lutherdrucke der Erlanger universitätsbibliothek, 1518–1523.—Bauch, Gustav. Geschichte des Leipziger frühhumanismus, mit besonderer rücksicht auf die streitigkeiten zwischen Konrad Wimpina und Martin Mellerstadt.
v.8, in 2. Hartwig, Otto, ed. Festschrift zum fünfhundertjährigen geburtstage von Johann Gutenberg.
v.7 lacks heft 19.
- LIBRARY; monthly. v.1—date. 1889—date.....r020.5 L683
Beginning with v.11, Dec.1899, this magazine is issued quarterly.
- LIBRARY association record; a monthly magazine of librarianship and bibliography; ed. by Henry Guppy. v.1—
date. 1899—date.....qr020.5 L6823
- LIBRARY chronicle. 5v. 1884–88.....qr020.5 L682
No more published.
- LIBRARY journal; monthly, Sept. 1876—date. v.1—date. 1877—
date.r020.5 L681
—General index, v.1–22. 1898.
v.1 has running title "American library journal."
- LIBRARY notes; improved methods and labor-savers, June
1886–1898. 4v. 1887–98.....r020.5 L68
Issued irregularly.
No more published.
- LIBRARY world; a medium of intercommunication for librarians; monthly, July 1898—date. v.1—date. 1899—date...r020.5 L6822
- PUBLIC libraries; a monthly review of library matters and methods. v.1—date. 1896—date.....qr020.5 P98
- INTERNATIONAL LIBRARY CONFERENCE.
Transactions and proceedings of the second international library conference, held in London, July 13–16, 1897.
1898.qr020.6 I24
- ADAMS, Herbert Baxter.
Public libraries and popular education. 1900. (New York (state)—University. Home education bulletin no.31.)...r021 A21
Bibliography, p.239–264.
- GREEN, Samuel Swett, comp.
Libraries and schools. 1883.....r021.3 G83
Contents: The public library and the public schools, by C. F. Adams.—
The relation of the public library to the public schools, by S. S. Green.
—Libraries as educational institutions, by S. S. Green.—The public library as an auxiliary to the public schools, by R. C. Metcalf.—The relation of libraries to the school system, by W. E. Foster.—A plan of systematic training in reading at school, by W. E. Foster.
- WISCONSIN—Free library commission.
Biennial report, 1895–96—date. v.1—date. 1896—date.....r021.8 W81

VERMONT—Library commissioners, Board of.

Biennial report, 1895-96-date. v.1-date. 1896-date.....r021.8 V27

022 Library buildings

BURGOYNE, Frank James.

Library construction, architecture, fittings and furniture.

1897. (Library series.).....022 B91

Lists of illustrations of libraries which have appeared in the "American architect," "Architect," "British architect," "Builder" and "Building news," p.315-326.

CARNEGIE FREE LIBRARY, Allegheny, Pa.

Specifications and conditions of submitting bids for the

erection and completion of the Carnegie free library

and music hall building, Allegheny, Pa.....r022 C21

CLARK, John Willis.

The care of books; an essay on the development of libra-

ries and their fittings, from the earliest times to the end

of the eighteenth century. 1901.....q022 C52

Mr Clark says in his introduction, "From my special point of view books are simply things to be taken care of; even their external features concern me only so far as they modify the methods adopted for arrangement and preservation." From this standpoint he traces the methods adopted by man in different ages and countries to preserve books and manuscripts and to make them accessible to others. His investigation includes the position, size and arrangement of the rooms in which these treasures were kept and the progressive development of fittings, catalogues and other appliances. The volume contains 156 illustrations, many of them full-page plates, admirably executed.

"A work of...real learning and scholarship." *Athenaeum*, 1901.

POOLE, William Frederick.

Organization and management of public libraries. 1876....r022 P79

Being v.1, chapter 25 of "Public libraries in the United States," pub-

lished by the United States bureau of education.

Bound with the following.

Remarks on library construction, to which is appended an

examination of Mr Smithmeyer's pamphlet entitled

Suggestions on library architecture, American and for-

eign. 1884.....r022 P79

Report on the progress of library architecture, and resolu-

tions of the American library association, 1882, concern-

ing the building for the Library of Congress. 1882....r022 P79

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SMALL, Herbert.

Handbook of the new Library of Congress, with essays on

the architecture, sculpture and painting, by Charles

Caffin, and on the function of a national library, by A.

R. Spofford. 1897.....022 S63

The same. 1897.....r022 S63

025 Library administration

BONFORT, H.

Das bibliothekwesen in den Vereinigten Staaten. 1896....025 B62

CRUNDEN, Frederick Morgan.

How things are done in one American library.....r025 C89

A series of articles on the St. Louis public library, which appeared in the "Library," v.11-12, 1899-1901.

FOOTE, Elizabeth Louisa.

The librarian of the Sunday school; a manual, with a chap-

ter on the Sunday school library by M. T. Wheeler. 1897...025 F74

Bibliography of descriptive lists of approved books for Sunday school libraries, p.81.

MACFARLANE, John, *of the British museum library.*

Library administration. 1898. (Library series.).....025 M15

SHURTLEFF, Nathaniel Bradstreet.

Decimal system for the arrangement and administration of

libraries. 1856.....qr025 S56

RICHARD, Jules.

L'art de former une bibliothèque. 1883.....r025.2 R39

AMERICAN LIBRARY ASSOCIATION.

List of subject headings for use in dictionary catalogs.

1895.qr025.3 A51

The same. Ed. 2. 1898.....qr025.3 A511

BRITISH MUSEUM.

Rules for compiling the catalogues in the department of

printed books in the British museum. 1900.....r025.3 B75

CUTTER, Charles Ammi.

Rules for a dictionary catalogue. (United States—Edu-
cation bureau. Public libraries in the United States,

v.2.)r027 U25 v.2

DEWEY, Melvil.

Library school rules. 1894.....qr025.3 D51

Simplified library school rules. 1898.....qr025.3 D51s

Contents: Card catalog.—Book numbers.—Accession.—Shelf list.—Cap-
itals, punctuation, abbreviations, library handwriting.

HASSE, Adelaide Rosalie.

United States government publications; a handbook for

the cataloger. v.1. 1902.....qr025.3 H34

v.1. The government at large; the constitution, statutes, treaties.

LINDERFELT, Klas August, *comp.*

Eclectic card catalog rules. 1890.....qr025.3 L71

PERKINS, Frederic Beecher.

Rational classification of literature for shelving and cata-

loguing books in a library. 1882.....r025.3 P43

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San Francisco cataloguing for public libraries. 1884.....r025.3 P43

QUINN, John Henry.

Manual of library cataloguing. 1899.....r025.3 Q35

SYDNEY, PUBLIC LIBRARY OF NEW SOUTH WALES.

Guide to the system of cataloguing of the reference library,

with regulations for visitors, etc. 1898.....qr025.3 S98

BROWN, James Duff.

Manual of library classification and shelf arrangement.

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DEWEY, Melvil.

Abridged decimal classification and relativ index. 1894...025.4 D51a

Decimal classification and relativ index. 1894.....q025.4 D51

RICHARDSON, Ernest Cushing.

Classification, theoretical and practical, with an appendix
containing an essay towards a bibliographical history of

systems of classification. 1901.....025.4 R41

New York state library school association alumni lectures, 1900-1901.

ROYAL SOCIETY OF LONDON.

International catalogue of scientific literature; report of
the committee, with schedules of classification. 1898..025.4 R81

O'CONOR, John Francis Xavier.

Facts about bookworms; their history in literature and
work in libraries. 1898.....025.8 O13

BLADES, William.

Enemies of books. 1888.....025.9 B51

The enemies enumerated by Mr Blades are: fire, water, gas and heat,
dust and neglect, ignorance and bigotry, the book-worm, bookbinders,
collectors, and servants and children.

027 History of libraries

BRITISH library year book; a record of library progress and

work; ed. by Thomas Greenwood, 1900/01. v.1. 1900..027 B75

CLARK, John Willis.

Libraries in the medieval and renaissance periods. 1894...027 C52

EDWARDS, Edward.

Libraries and founders of libraries. 1864.....027 E31

FLETCHER, William Isaac.

Public libraries in America. 1894.....027 F63

The same. 1895.....027 F63

FLINT, Weston, *comp.*

Statistics of public libraries in the United States and Can-
ada. 1893. (United States—Education bureau. Circu-
lar of information no.201.).....027 F64

GENTLEMAN'S magazine library; ed. by G. L. Gomme; Lit-

erary curiosities and notes. 1888.....027 G29

Contents: Bookmaking and bookselling. — Libraries and book clubs. —
Bibles, prayer-books and devotional books.

GREENWOOD, Thomas.

Public libraries; a history of the movement and a manual
for the organization and management of rate-supported
libraries. 1894.....027 G85

NÖRRENBERG, Constantin.

Kooperation verschiedener bibliotheken, [and] Oeffent-
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Bound with the following.

REYER, Ed.

Entwicklung und organisation der volksbibliotheken. 1893..027 R37

UNITED STATES—Education bureau.

- Public libraries in the United States; their history, condition and management. 2v. 1876-91.....r027 U25
 Statistics of libraries and library legislation in the United States. 1897.....r027 U25a
 Chapters from the Report of the commissioner of education, 1895-96.

WILSON, James Grant.

- World's largest libraries. (Hoffman library lectures.)....027 W76
The same. (Hoffman library lectures.).....r027 W76

MERCANTILE LIBRARY ASSOCIATION, Pittsburgh.

- Annual report, 1871-1873. v.24-26, in 1. 1872-74.....r027.2 M63

QUINCY, Josiah, 1772-1864.

- History of the Boston Athenæum, with notices of its founders. 1851.....qro27.2 B64

JEFFERSON COUNTY LIBRARY, Fairfield, Iowa.

- Photographs and description of the Jefferson county library, Fairfield, Iowa, erected by Andrew Carnegie, 1896.qro27.3 J23

BIRMINGHAM, England—Free libraries.

- Annual report of the committee, 1862, 1868-69, 1871-72, 1874-date. v.1, 7-8, 10-11, 13-date. 1862-date.....r027.4 B48

BOSTON—Public library.

- Annual report of the trustees. v.2-date. 1854-date....r027.4 B64a
 v.3, 6-11, 13, 16, 19, 24-25, 27, reports for 1855, 1858-63, 1865, 1868, 1870/71, 1875/76-1876/77, 1878/79, wanting.
 Hand-book for readers in the library, containing the regulations of the library, an account of the catalogues, a bibliography of special subjects, list of indexes to periodicals and other information. 1890.....r027.4 B64h
 Proceedings on laying the corner-stone, Sept 17, 1855. 1855.r027.4 B64

BROOKLINE, Mass.—Public library.

- Annual report of the trustees, 1865/66-date. v.9-date. 1866-date.r027.4 B77
 v.10-12, 37, reports for 1867-69, 1894, wanting.

BUFFALO, N. Y.—Library.

- Annual report, 1895-date. v.60-date. 1896-date.....r027.4 B86

CAMBRIDGE, Mass.—Public library.

- Annual report of the trustees, 1882-date. v.25-date. 1883-date.r027.4 C14
 v.26-29, 31, 33-34, reports for 1883-86, 1888, 1890-91, wanting.

CARNEGIE INSTITUTE, Pittsburgh.

- Carnegie fine arts and museum collection fund; constitution and by-laws of the board of trustees, together with Mr Carnegie's letter and deed of trust.....r027.4 C21c
 Bound with Carnegie library of Pittsburgh. Ordinances and by-laws.
 Founder's day, 1897-date. 1897-date.....r027.4 C21f
 Accounts of the Founder's day exercises of Carnegie institute, beginning with the second anniversary (1897) of the dedication of the building. The first anniversary, in 1896, was celebrated very informally, and no printed description was issued. Beginning with 1899 the title reads, "Fourth [Fifth, Sixth, etc.] celebration of Founder's day at the Carnegie institute."
 For information concerning the dedication of the building in 1895, see "Dedication souvenir" and "Presentation of the library to the people of Pittsburgh," under Carnegie library of Pittsburgh.

CARNEGIE LIBRARY OF PITTSBURGH.

Dedication souvenir. 1895.....r027.4 C21

Ordinances and by-laws.....r027.4 C21c

Presentation of the library to the people of Pittsburgh,
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1895. 1895.....r027.4 C21p

CREDLAND, William Robert.

Manchester public free libraries; a history and descrip-
tion, and guide to their contents and use. 1899.....r027.4 C87

EDWARDS, Edward.

Free town libraries; their formation, management and his-
tory in Britain, France, Germany & America, with
notices of book-collectors and of the places of deposit
of their surviving collections. 1869.....r027.4 E31

ENOCH PRATT FREE LIBRARY, Baltimore.

Letters and documents relating to its foundation and
organization, with the dedicatory addresses and exer-
cises, Jan. 4, 1886. 1886.....r027.4 E65

HARTFORD—Public library.

Annual report of the executive committee, 1895/1896—date.
v.58—date. 1896—date.....r027.4 H32JAMES BLACKSTONE MEMORIAL LIBRARY, Branford,
Conn.

Exercises at the opening, June 17, 1896. 1897.....qr027.4 J16

JOHN CRERAR LIBRARY, Chicago.

Annual report, 1895—date. v.1—date. 1897—date.....qr027.4 J35

KRUPP'SCHE BÜCHERHALLE.

Bericht der Krupp'schen bücherhalle über das betriebs-
jahr 1899/1900-1900/01; mit anlage, Die verwaltung und
einrichtung der bücherhalle. v.1-2. 1900-01.....qr027.4 K42

LANGFORD, John Alfred.

The Birmingham free libraries, the Shakspeare memorial
library and the art gallery. 1871.....r027.4 B481

LENOX LIBRARY, New York.

Annual report of the trustees, 1870-1894. v.1-25, in 1.
1871-95.r027.4 L61

LITHGOW LIBRARY, Augusta, Maine.

Lithgow library and reading room; history and descrip-
tion.r027.4 L74

LOS ANGELES, Cal.—Public library.

Annual report. v.1—date. 1889—date.....r027.4 L89

NEW HAVEN, Conn.—Free public library.

Annual report. v.1—date. 1887—date.....r027.4 N26

NEW YORK (city)—Free circulating library.

Annual report, 1887-1900. v.8-21. 1887-1901.....r027.4 N261
v.11, report for 1891, wanting.

Consolidated with the New York public library, Feb. 25, 1901.

NEW YORK LIBRARY CLUB.

Libraries of greater New York; Manual and historical
sketch of the New York library club. 1902.....r027.4 N2612

- OGLE, John J.
 The free library; its history and present condition. 1897.
 (Library series.)027.4 O17
 Treats of British libraries only.
- PRATT INSTITUTE, Brooklyn, N. Y.
 Report of the library, 1896/97-date. v.1-date. 1897-date...027.4 P88
- PROVIDENCE, R. I.—Public library.
 Annual report, 1882-date. v.5-date. 1883-date.....027.4 P97
 v.10-13, 15, 17, reports for 1887-90, 1892 and 1894, wanting.
- ST. LOUIS—Public library.
 Annual report, 1869/70-1896/97. 23v. in 2. 1870-98.....027.4 S14
 Reports for 1876/1877, 1878/1879-1879/1880, 1889/1890 wanting.
- SMALL, Herbert.
 Handbook of the new public library in Boston. 1895.....027.4 B64
- SPRINGFIELD, Mass. CITY LIBRARY ASSOCIATION.
 Annual report, 1865/66-date. v.5-date. 1886-date.....027.4 S76
 v.7, 9-10, reports for 1867/1868, 1869/1870-1870/1871, wanting.
- STEVENSON, William Marshall.
 Carnegie and his libraries. 1899.....027.4 S84
 Reprinted from the "Presbyterian banner," v.86, Aug. 10, 1899.
- ILLINOIS STATE HISTORICAL LIBRARY.
 Trustees' report, 1894. 1895.....027.5 I22
- NEW YORK (state)—Library.
 Annual report, 1892/93-date. v.76-date. 1894-date.....027.5 N26
- PENNSYLVANIA—State library.
 Report of the librarian, 1888-date. 1889-date.....027.5 P39
- UNITED STATES—Library of Congress.
 Report of the librarian, 1897-date. 1897-date.....027.5 U25
 Report for 1900/01 contains a manual of the constitution, organization, methods, etc. of the library.
- WISCONSIN HISTORICAL SOCIETY.
 Memorial volume of the State historical society of Wisconsin; exercises at the dedication of its new building, Oct. 19, 1900, with a description of the building, accounts of the several libraries contained therein and a brief history of the society; ed. by R. G. Thwaites. 1901.027.5 W81
- NEW YORK (state)—University—Extension department.
 Traveling libraries. 1901. (Bulletin no.40.).....027.6 N26
 Contents: Field and future of traveling libraries, by Melvil Dewey. —
 Summary of traveling library systems, by Myrtilla Avery.
- HARVARD UNIVERSITY—Library.
 Report of the librarian, 1896-date. 1896-date.....027.7 H33
- DUNNING, Albert Elijah.
 Sunday-school library. 1884.....027.8 D92

028 Reading and aids

- ABBOTT, Lyman, *ed.*
 Hints for home reading, with suggestions for libraries by
 G. P. Putnam. 1892.....028 A13
 Contains priced lists of suggested selections of 500, 1000 and 2000 volumes of the most desirable and important books.

- ATKINSON, William Parsons.
On the right use of books. 1880.....028 A87
- BALDWIN, James.
Book-lover; a guide to the best reading. 1895.....028 B19
- BALDWIN, James, *comp.*
Guide to systematic readings in the Encyclopædia Britan-
nica. 1895.....r028 B19g
- BROOKINGS, Walter DuBois, & Ringwalt, R. C. *ed.*
Briefs for debate on current political, economic and social
topics. 1896.....r028 B77
Bibliography of debating, by A. B. Hart, p.41-47.
- CALLER, Mary Alice.
Literary guide for home and school. 1895.....028 C13
Contains general suggestions on the reading of young girls, and outlines
a ten years' course in literature for girls from seven to seventeen;
there are also lists of historical novels illustrating the whole course
of English and American history.
- COUNSEL upon the reading of books, with an introduction
by Henry Van Dyke. 1900.....028 C83
Contents: History, by H. M. Stephens.—Memories and biographies, by
Agnes Repplier.—Sociology, economics and politics, by A. T. Hadley.
—The study of fiction, by Brander Matthews.—Poetry, by Bliss Peary.
—Essay and criticism, by H. W. Mabie.
A short list of references precedes each chapter.
- CRUMP, John F.
Witchery of books. 1900.....028 C89
- FARRAR, Frederic William, dean.
Great books. 1898.....028 F25
Contents: Great books.—John Bunyan.—Shakespeare.—Dante.—Milton.
—The imitation of Christ.
- FOSTER, William Eaton.
Libraries and readers. 1883.....r028 F81
Contents: Some hints on right reading.—Correction of aimless reading.
—The specializing of reading, for general readers.—“Current litera-
ture” and “standard literature.”—Securing the interest of a com-
munity.—What may be done at home.—How to use a library; a rudi-
mentary chapter.—Books and articles on reading.
- GIBSON, Laurence M.
Handbook for literary and debating societies. 1898.....r028 G37
References at the end of each article.
- HOFFMAN, Charles Frederick.
The library a divine child. 1893.....028 H67
- HUMPHREYS, Arthur L.
The private library; what we do know, what we don't know,
what we ought to know about our books. 1897.....028 H92
- IRELAND, Alexander, (*pseud.* Philobiblos), *comp.*
Book-lover's enchiridion. 1883.....028 I28
A treasury of thoughts on the solace and companionship of books, gath-
ered from the writings of the greatest thinkers, from Cicero to Ruskin.
- KOOPMAN, Harry Lyman.
Mastery of books; hints on reading and the use of libra-
ries. 1896.....r028 K37
Annotated list of books on the subject of reading, p.197-203.

- LARNED, Josephus Nelson.**
 A talk about books. 1897.....028 L32
 An address by the author of the "History for ready reference," to the students of the Central high school, Buffalo, N. Y.
- LEYPOLDT, Augusta H. & Iles, George, comp.**
 List of books for girls and women and their clubs. 1895...qro28 L67
 Lists of books on various subjects, chosen by specialists, and furnished with descriptive and critical notes. In addition to these lists are a list of periodicals and hints for girls' and women's clubs.
- MATSON, Henry.**
 References for literary workers. 1893.....ro28 M47
- MATTHEWS, Brander.**
 Home library. 1883.....028 M47
 Chapters on the buying and owning of books, on fiction, on book-binding, etc.
- RAFFETY, Frank W.**
 Books worth reading; a plea for the best and an essay towards selection, with short introductions to many of the world's great authors. 1899.....028 R14
- RICHARDSON, Charles Francis.**
 Choice of books. 1885.....028 R41
- RIGHT reading; words of good counsel on the choice and use of books, selected from the writings of ten famous authors. 1902.....028 R45**
List of authors: Sir Arthur Helps.—Carlyle.—Isaac D'Israeli.—Emerson.—Schopenhauer.—Ruskin.—J. C. Hare.—John Morley.—Lowell.—Frederic Harrison.
- ROWTON, Frederic.**
 How to conduct a debate; a series of complete debates, outlines of debates and questions for discussion, with references to the best sources of information on each particular topic; revised by W. Taylor.....ro28 R81
- SHAYLOR, Joseph, comp.**
 The pleasure of literature and the solace of books. 1898....028 S53
 Prose extracts from ancient and modern writers.
- WINCHESTER, Caleb Thomas.**
 Five short courses of reading in English literature, with biographical and critical references. 1892.....ro28 W77

028.5 Reading for the young

- BUFFALO, N. Y.—Library.**
 Class-room libraries for public schools, listed by grades, to which is added a list of books suggested for school reference libraries. 1902.....ro28.5 B86
- BURT, Mary Elizabeth.**
 Literary landmarks. 1893.....028.5 B94
 Guide to reading for the young. The volume contains many ingenious illustrations designed to fix in the pupil's mind the story of literature, and at the end is a carefully selected list of 700 books.
- CARNEGIE LIBRARY OF PITTSBURGH.**
 Graded and annotated catalogue of books for the use of the city schools. 1900.....ro28.5 C21

FIELD, Mrs E. M.

The child and his book; some account of the history and progress of children's literature in England. 1891.....028.5 F45

GRISWOLD, William MacCrillis, *comp.*

Descriptiv list of books for the young. 1895.....028.5 G93

HARDY, George E. *ed.*

Five hundred books for the young. 1892.....028.5 H26

The same. 1892.....028.5 H26

HARTFORD—Public library.

Boys' and girls' books in the library. 1895.....028.5 H32

LAWRENCE, Isabel.

Classified reading; books for the school, the library and the home, with a full bibliography of education. 1898..028.5 L42

PRENTICE, May H. *comp.*

References to books in the Cleveland public library, intended to aid the third grade teachers of the Cleveland public schools. 1898.....028.5 P91

The same. 1898.....028.5 P91

Published by the Cleveland public library.

SARGENT, John Frederick, *comp.*

Reading for the young, with supplement for 1891-1895 by

M. E. and A. L. Sargent. 2v. in 1. 1890-96.....028.5 S24r

The same. 2v. 1890-96.....028.5 S24

WISCONSIN—Libraries, State superintendent of.

List of books for township libraries of Wisconsin. 1901..028.5 W81

The same. 1902.....028.5 W81l

029 Literary methods

AUTHOR; a monthly magazine for literary workers. 3v. in

1. 1889-91.....029 A93

No more published.

BOOTH, William Stone, *comp.*

Notes for the guidance of authors. 1900.....029 B63

Brief chapters on the preparation of a manuscript, submitting a manuscript to a publisher, copyright, forms of agreement, proof-reading, proof showing corrections, and other helpful suggestions to persons not accustomed to the ways of publishers. Compiled for the Macmillan co.

WALSH, William Shepard, *comp.*

Authors and authorship. (Literary life.).....029 W18

WRITER; a monthly magazine for literary workers. v.1-

date. 1887-date.....029 W93

Contains articles on subjects of particular interest to writers, especially those doing newspaper work of any kind, advice to aspirants to the profession of literature, lists of magazine articles interesting to literary workers, and descriptions of practical helps and conveniences.

030 General encyclopedias

AMERICAN annual cyclopædia and register of important

events, 1861, 1864. v.1, 4. 1862-65.....0301 A51

Continued 1876-date as "Appletons' annual cyclopædia and register of important events."

- APPLETONS' American cyclopædia. 17v. 1883-84.....qro31 A64
- APPLETONS' annual cyclopædia and register of important events, 1876-date. New series v.1-date. 1886-date...qro31 A64a
Title of earlier series reads "American annual cyclopædia and register of important events."
- CENTURY cyclopedia of names. 1894.....qro31 C32
The same. 1895.....qro31 C32c
- CHAMPLIN, John Denison:
Young folks' catechism of common things. 1886.....rjo31 C35y
- CHAMPLIN, John Denison, *comp.*
Young folks' cyclopædia of common things. 1894.....rjo31 C35
- CHANDLER'S encyclopædia; an epitome of universal knowledge; ed. by W. H. Chandler. 3v. 1898.....qro31 C36
- COLUMBIAN cyclopedia. 32v. 1897.....ro31 C72
- INTERNATIONAL cyclopædia. 15v. 1895.....qro31 I24
- INTERNATIONAL year book; a compendium of the world's progress in every department of human knowledge, 1898-date; ed. by F. M. Colby and H. T. Peck. v.1-date. 1899-date.....qro31 I248
- JOHNSON'S new universal cyclopædia. 4v. 1875-78.....qro31 J35
The same; ed. by C. K. Adams. 8v. 1893-95.....qro31 J35u
The same; new ed. by C. K. Adams; revised and enl. by Rossiter Johnson. 12v. 1902.....qro31 J35u2
Title-page of the edition of 1902 reads "Universal cyclopædia and atlas."
- CHAMBERS'S encyclopædia. 10v. 1901.....qro32 C35
- ENCYCLOPÆDIA Britannica. 25v. 1878-89.....qro32 E62
—American supplement. 4v. 1893.....qro32 E62i
- HAZELL'S annual for 1890-date. v.5-date. 1890-date.....ro32 H38
v.6, 7 and 9 wanting.
- PENNY cyclopædia, with 1st supplement. 29v. in 16.
1833-51.....qro32 P41
- QUILTER, Harry, *ed.*
What's what. v.1. 1902.....ro32 Q32
A new kind of encyclopedia, more for reading than for reference. It covers a wide field and in spite of inconsistencies, curious omissions and lack of proportion, it contains some interesting and worthy material.
- REES, Abraham, *comp.*
The cyclopædia; or, Universal dictionary of arts, sciences and literature. 45v. 1819-20.....qro32 R28
- WILKES, John, *of Sussex, England, comp.*
Encyclopædia Londinensis. v.1-10. 1810-11.....qro32 W72
- ALLGEMEINES lexicon der künste und wissenschaften. 2v. 1767.ro33 A43
- BROCKHAUS, Friedrich Arnold, *comp.*
Konversations-lexikon. 17v. 1892-97.....qro33 B76
- HÜBNER, Johann, *comp.*
Reales staats- zeitung- und conversations-lexicon. 1757..ro33 H88
- MEYERS kleines konversations-lexikon. 3v. 1892-93.....ro33 M65k
- MEYERS konversations-lexikon. v.1-date. 1893-date.....qro33 M65

LAROUSSE, Pierre Athanase, *comp.*

Grand dictionnaire universel du 19e siècle, & 2 suppléments. 17v. 1865-90.....qro34 L33

040 General collections

COTGREAVE, Alfred, *comp.*

Contents-subject index to general and periodical literature. 1900.....ro40 C83

EVENS, William.

Scrap book compiled by William Evens.....qro40 E95

Miscellaneous clippings collected by an old Pittsburgh musician.

FLETCHER, William Isaac, *ed.*

"A. L. A." index; an index to general literature. 1893....qro40 F63

The same. 1901.....qro40 F63a

050 General periodicals

Indexes

ANNUAL literary index, including periodicals and essays; *ed.*

by W. I. Fletcher and R. R. Bowker, 1892-date. v.1-

date. 1893-date.....qro50 A6r

CUMULATIVE index to a selected list of periodicals, 1896-

date. v.1-date. 1897-date.....qro50 C9r

DIETRICH, F. *comp.*

Bibliographie der deutschen zeitschriften-litteratur. v.1-

date. 1897-date.....qro53 D57

The same; supplementband, bibliographie der deutschen

rezensionen, 1900-date. v.1-date. 1901-date.....qro53 D57s

INDEX to the periodical literature of the world. *See* Review

of reviews. Annual index of periodicals.

POOLE, William Frederick, *comp.*

Alphabetical index to subjects treated in the reviews and

other periodicals to which no indexes have been published,

prepared for the library of the Brothers in unity,

Yale college. 1848.....ro50 P79a

The germ of Poole's invaluable "Index to periodical literature," compiled when the author was a student at Yale. He himself says of it, "My work, though crude and feeble on its bibliographical side, answered its purpose, and brought to me the whole body of students for a kind of help they could not get from the library catalogues, nor from any other source...The little book is now a curiosity in more senses than one."

A second edition, with six times the amount of matter contained in the first, appeared in 1853, and was incorporated later into the well-known "Index" of 1882.

POOLE, William Frederick, & Fletcher, W. I. *comp.*

Index to periodical literature; and supplements, 1802-1896.

4v. in 5. 1888-97.....qro50 P79

The same; abridged edition covering the contents of thirty-

seven important periodicals, 1815-1899, by W. I. Fletcher

and Mary Poole. 1901.....qro50 P79i

RÉPERTOIRE bibliographique des principales revues françaises; rédigé par D. Jordell, 1898-date. v.2-date. 1900-date.qro54 R35

REVIEW OF REVIEWS.

Annual index of periodicals & photographs, 1890-date.

v.1-date. 1891-date.....qro50 R36

v.2-4 title reads "Index to the periodical literature of the world."

v.5-date title reads "Index to the periodicals."

051 American periodicals

AMERICAN eclectic; or, Selections from the periodical literature of all foreign countries; ed. by Absalom Peters and others; bi-monthly. 4v. 1841-42.....ro51 A5122
No more published.

AMERICAN monthly review. 4v. in 3. 1832-33.....ro51 A5123
No more published.

AMERICAN monthly review of reviews. *See* Review of reviews.

AMERICAN notes and queries; weekly. 8v. 1888-92.....ro51 A512

AMERICAN quarterly review, Mar. 1827-Dec. 1837. 22v. 1827-37.ro50 A51
No more published.

AMERICAN review; a Whig journal; monthly. 16v. 1845-52..ro51 A51
v.11-16 title reads "American Whig review."
No more published.

AMERICAN review of history and politics; ed. by R. Walsh; quarterly. 4v. 1811-12.....ro51 A513
No more published.

AMERICAN Whig review. *See* American review.

ANALECTIC magazine; containing selections from foreign reviews and magazines; monthly, Jan. 1813-June 1819. v.1-13. 1813-19.....ro51 A53
v.6-8 title reads "Analectic magazine and naval chronicle."

APPLETONS' journal of literature, science and art; weekly and monthly. 26v. 1869-81.....qro51 A65
No more published.

ARENA; monthly. v.1-date. 1890-date.....ro51 A68

ATLANTIC monthly. v.1-date. 1858-date.....ro51 A88
—Index, v.1-62. 1889.

BAY state monthly. *See* New England magazine.

BOOK buyer; a summary of American and foreign literature; monthly. v.1-date. 1884-date.....ro51 B63b

BOOK news; monthly. v.16-date. 1897-date.....qro51 B631

BOOK reviews; monthly. v.3-9. 1895-1901.....ro51 B632
No more published.

BOOKMAN; illustrated literary journal; monthly. v.1-date. 1895-date.qro51 B63

BOSTONIAN. *See* National magazine.

CALIFORNIAN; a Western monthly magazine. 6v.

1880-82.....qro51 C13
Oct.-Dec. 1882 title reads the "Californian and overland monthly." No more published.

CANADIAN magazine of politics, science, art and literature; monthly. v.1-date. 1893-date.....ro51 C16

- CANADIAN monthly and national review, Jan. 1872-June 1882. 21v. 1872-82.....ro51 C167
No more published.
- CENTURY illustrated monthly magazine. v.1-date. 1882-date.....ro51 S431
Being v.23-date of "Scribner's monthly."
The same. v.36-date. 1899-date.....051 S431
Being v.58-date of "Scribner's monthly."
- CHAP-BOOK; semi-monthly. 9v. 1894-98.....qro51 C36
No more published.
- CHAUTAUQUAN; monthly. v.1-date. 1881-date.....qro51 C41
- CONSERVATIVE review. v.1-date. 1899-date.....ro51 C75
- CONTINENTAL monthly, devoted to literature and national policy, Jan. 1862-June 1864. v.1-5. 1862-64.....ro51 C76
- COSMOPOLITAN; monthly. v.1-date. 1886-date.....ro51 C83
- CRITIC; weekly. New series, v.1-date. 1884-date.....qro51 C88
- CURRENT literature; monthly. v.1-date. 1888-date.....qro51 C93
- DAGUERREOTYPE; a magazine of foreign literature and science, comp. chiefly from the periodical publications of England, France and Germany; semi-monthly, Aug. 7, 1847-Apr. 17, 1849. v.1-3. 1847-49.....qro51 D14
- DIAL; monthly and semi-monthly. v.1-date. 1881-date....qro51 D53
- ELECTIC magazine of foreign literature, science and art; monthly. v.1-date. 1844-date.....ro51 E25
v.132 begins a new series, and title reads "Eclectic magazine and monthly edition of the Living age."
- EMERSON'S magazine and Putnam's monthly. *See* Putnam's monthly magazine.
- EVERY Saturday; weekly. 17v. 1866-74.....qro51 E95
In Nov. 1874 this was incorporated with "Littell's living age."
- FORUM; monthly. v.1-date. 1886-date.....ro51 F79
—Index, v.1-32. 1902.
- FRANK Leslie's popular monthly. v.44-date. 1897-date....qro51 F87
- GALAXY; semi-monthly and monthly. v.1-24, in 25. 1866-77..ro51 G14
Publication ceased with v.25.
Incorporated with "Atlantic monthly."
- GRAHAM'S magazine; monthly, Jan.-June 1851. v.38. 1851..qro51 G77
- GRANITE monthly; a New Hampshire magazine devoted to literature, history and state progress. v.1-date. 1877-date.....ro51 G78
- GREAT round world; a history of our own times for boys and girls; weekly. v.1-date. 1896-date.....rjo51 G82
The same. v.3-date. 1899-date.....jo51 G82
- HARPER'S new monthly magazine. v.1-date. 1850-date....ro51 H28
—Index, v.1-85. 1893.
The same. v.100-date. 1900-date.....051 H28
- HARPER'S young people; weekly and monthly. 20v. 1880-99.....qrjo51 H28
The same. v.2, 17-18. 1881-98.....qjo51 H28
v.16-20 title reads "Harper's round table."
No more published.
- HESPERIAN tree; an annual of the Ohio valley; ed. by J. J. Piatt. v.1-date. 1900-date.....qro51 H48
"Editor's aim has been to offer to the public in this annual a magazine of literary miscellany in prose and verse comprising original stories, sketches, essays and poems—the contributors to which should be native

- to or identified with the Ohio Valley...with reproductions...of pictures and drawings, as well as works in sculpture, by artists also native to or identified with our...valley." *Editor's note.*
- HOURS at home; monthly. 11v. 1865-70.....r051 H83
No more published.
- ILLUSTRATED American; weekly. 25v. 1890-99.....qr051 I22
v.22-23 wanting.
No more published.
- INTER ocean curiosity shop, 1880-1892. v.3-15. 1881-93...r051 I2481
Publication ceased with v.15.
- INTERNATIONAL monthly; a magazine of contemporary thought. v.1-date. 1900-date.....r051 I2482
- INTERNATIONAL monthly magazine. 5v. 1850-52.....r051 I248
No more published.
- INTERNATIONAL review; bi-monthly. 14v. 1874-83.....r051 I24
No more published.
- KNICKERBOCKER; or, New-York monthly magazine.
v.1-60. 1833-62.....r051 K34
March 1844 wanting.
- LAND we love; monthly, May 1866-Mar. 1869. v.1-6. 1866-69..r051 L21
A general literary magazine published in the South and specially devoted to Southern interests. It contains considerable material relating to the Civil war.
- The LIBRARY; weekly, March 10th-Sept. 1st, 1900. v.1,
no.1-26. 1900. Pittsburgh.....qr051 L68
No more published.
- LIPPINCOTT'S monthly magazine. v.1-date. 1868-date..r051 L73
- LITERARY digest; weekly. v.12-date. 1896-date.....qr051 L741d
- LITERARY world; monthly and semi-monthly. v.9-date.
1878-date.qr051 L741
- LITTELL'S living age; weekly. v.1-date. 1844-date.....r051 L74
Complete index, v.1-100. 1891.
- LITTLE folks; monthly. v.1-date. 1899-date.....rj051 L74
- McCLURE'S magazine; monthly. v.1-date. 1893-date.....r051 M13
- MIDLAND monthly. v.8-11. 1897-99.....r051 M67
Publication ceased with v.11.
- MISCELLANEOUS notes and queries, with answers; pub.
by S. C. & L. M. Gould; monthly, July 1882-date. v.1-
date. 1884-date.....r051 M73
v.16 title reads "The grand man; notes and queries."
v.17-date title reads "Notes and queries and historic magazine."
- MUNSEY'S magazine; monthly, Oct. 1891-date. v.6-date.
1892-date.r051 M96
Prior to October 1891 this appeared as a weekly publication.
- NATIONAL magazine; an illustrated monthly. v.1-date.
1896-date.qr051 B64
v.1-3 published as the "Bostonian."
- NATIONAL magazine; devoted to literature, art and religion; ed. by Abel Stevens and James Floy; monthly.
13v. 1852-58.....r051 N15
No more published.
- NEW England magazine. v.1-date. 1884-date.....r051 B33
v.1-3 published as the "Bay state monthly."
- NEW-ENGLAND magazine; ed. by J. T. Buckingham and others; monthly, July 1831-Dec. 1835. 9v. 1831-35...r051 N2612
Continued as "American monthly magazine."

- NEW Englander. 56v. 1843-92.....ro51 N261
 ———Index, v.1-19. 1862.
 v.44-56 title reads "New Englander and Yale review."
 Succeeded by the "Yale review."
- NEW YORK review; half yearly and quarterly. 10v. 1837-42...ro51 N26
 No more published.
- NORTH American review; bi-monthly and monthly. v.1-
 date. 1815-date.....ro51 N45
- NOTES and queries and historic magazine. *See* Miscellane-
 ous notes and queries.
- OLD and new; monthly. 11v. 1870-75.....ro51 O23
 No more published.
- OPEN court; a monthly magazine. v.3, no.2-date. 1889-
 date.qr051 O26
- OUR day; a record and review of current reform; ed. by
 Joseph Cook and others; monthly. v.1-8. 1888-91...ro51 O327
- OUR monthly; a religious and literary magazine. 4v. in 2.
 1870-71.ro51 O32
- OUR young folks; monthly. 9v. 1865-73.....rj051 O32
- OVERLAND monthly. v.1-date. 1868-date.....ro51 O33
 Discontinued from Jan. 1876-Dec. 1882.
- PENN monthly magazine. 14v. in 13. 1870-82.....ro51 P39
 No more published; v.14 consists of one number only.
- The PHILISTINE; a periodical of protest, printed for the
 Society of the Philistines; monthly. v.1-date. 1895-
 date.ro51 P49
- PUTNAM'S monthly magazine. 16v. 1853-70.....ro51 P99
 No more published.
 v.10 title reads "Emerson's magazine and Putnam's monthly."
- REVIEW of reviews; monthly. v.1-date. 1890-date.....qr051 R39
 v.16-date title reads "American monthly review of reviews."
- RIVERSIDE magazine; monthly. 4v. 1867-70.....rj051 R52
 No more published.
- ST. LOUIS public library magazine; monthly, Apr. 1897-Nov.
 1898. v.4-5. 1897-1900.....qr051 S14
 A continuation of the "Bulletin of the St. Louis public library," under
 which title the first three volumes were issued.
 No more published.
- ST. NICHOLAS; monthly, Nov. 1873-date. v.1-date. 1874-
 date.rj051 S14
 ———Index, v.1-21. 1894.
 ———Index, v.1-27. 1901.
The same. v.1-date. 1874-date.....j051 S14
- SCRIBNER'S magazine; monthly. v.1-date. 1887-date.....ro51 S43
The same. v.27-date. 1900-date.....051 S43
- SCRIBNER'S monthly. v.1-date. 1871-date.....ro51 S431
 v.23-date title reads "Century illustrated monthly magazine."
The same. v.58-date. 1899-date.....051 S431
- SOUTHERN literary messenger; monthly, Jan. 1837-June
 1864. v.3-36. 1837-64.....qr051 S72
 Pts. of v.32 & 35 wanting.
 v.12-13 title reads "Southern and Western literary messenger and
 review."
- WIDE awake; monthly. 37v. 1875-93.....rj051 W67
 Incorporated with "St. Nicholas" in Sept. 1893.
- WORLD'S work; monthly, Nov. 1900-date. v.1-date. 1901-
 date.qr051 W89
- YOUTH'S companion; weekly. v.57-date. 1884-date.....qrj051 Y42

052 English periodicals

- ALL the year round; a weekly journal; conducted by Charles Dickens, April 30, 1859–March 30, 1895. 76v. 1859–95...qro52 A41
After March 30, 1895, this publication was discontinued and the magazine incorporated with "Household words."
- ANGLO-SAXON review; a quarterly miscellany; ed. by Lady Randolph Spencer Churchill. 10v. 1899–1901.....qro52 A58
No more published.
- ANTIQUARIAN magazine & bibliographer; ed. by Edward Walford; monthly. 12v. 1882–87.....ro52 A63
v.8–12 title reads "Walford's antiquarian magazine and bibliographical review;" v.11–12 are edited by G. W. Redway.
No more published.
- ARGOSY; monthly. 75v. 1866–1901.....ro52 A69
No more published.
- BELGRAVIA; monthly. 98v. 1867–99.....ro52 B39
Publication ceased with June 1899.
- BENTLEY'S miscellany; monthly. 64v. 1837–68.....ro52 B44
No more published. Incorporated with "Temple bar."
- BLACKWOOD'S Edinburgh magazine; monthly. v.1–date.
1817–date.ro52 B51
———General index, v.1–50. 1855.
- BRITISH and foreign review; or, European quarterly journal.
18v. 1835–44.....ro52 B756
No more published.
- BRITISH quarterly review. 83v. 1845–86.....ro52 B75
No more published.
- CHAMBERS'S Edinburgh journal; weekly. v.1–date. 1833–
date.qro52 C35
v.33–date title reads "Chambers's journal."
- CONTEMPORARY review; monthly. v.1–date. 1866–date..ro52 C76
- CORNHILL magazine; monthly. v.1–date. 1860–date.....ro52 C82
- COSMOPOLIS; an international monthly review. 12v.
1896–98.ro52 C83
No more published.
- DARK blue; monthly. v.1–5, no.1, in 4. 1871–73.....ro52 D25
No more published.
- DUBLIN university magazine; monthly. 96v. 1833–80.....ro52 D85
v.91–96 title reads "University magazine."
v.96 consists of two quarterly numbers.
No more published.
- EDINBURGH review; quarterly, Oct. 1802–date. v.1–date.
1814–date.ro52 E28
———General index, v.1–20. 1813.
———General index, v.21–50. 1832.
———General index, v.51–80. 1850.
———General index, v.81–110. 1862.
———General index, v.111–140. 1876.
- ENGLISH illustrated magazine; monthly, 1883–date. v.1–
date. 1884–date.....qro52 E64
- FOREIGN quarterly review. 37v. 1827–46.....ro52 F76
No more published.
- FORTNIGHTLY review. v.1–date. 1865–date.....ro52 F79
- FRASER'S magazine; monthly. 106v. 1830–82.....ro52 F88
No more published.

- GENTLEMAN'S magazine; monthly, 1731-May 1868. 138v.
 in 221. 1806-68.....ro52 G29
 ———General index, 1731-1786. 2v. 1818.
 ———General index, 1787-1818. 2v. 1821.
 ———Complete list of plates and wood-cuts, 1731-1818. 1821.
 v.30, 1760; v.90, pt.1, Jan.-June 1820, wanting.
The same, new ser. June 1868-date. v.1-date. 1868-date..ro52 G29g
- HOUSEHOLD words; a weekly journal; conducted by
 Charles Dickens. 19v. 1850-59.....ro52 H83
 Continued as "All the year round."
- HOWITT'S journal of literature and popular progress; ed.
 by William and Mary Howitt; weekly. 3v. 1847-48..qro52 H86
 In 1849 incorporated with the "People's journal" and continued as
 "People's and Howitt's journal."
- IDLER; monthly. v.1-date. 1892-date.....ro52 I14
- ILLUMINATED magazine; ed. by Douglas Jerrold; monthly.
 4v. 1843-45.....qro52 I22
 No more published.
- KNIGHT'S penny magazine. *See* Penny magazine.
- LEISURE hour; weekly and monthly. v.1-date. 1852-date..qro52 L56
 ———Index, v.1-25.
- LITERATURE; ed. by H. D. Traill; weekly. 9v. 1898-1902..qro52 L74
 United with the "Academy," Jan. 18, 1902.
- LONDON magazine; or, Gentleman's monthly intelligencer.
 v.1-54. 1732-85.....ro52 L822
 ———General index, v.1-27. 1760.
 v.5-16 title reads "London magazine and monthly chronologer."
- LONDON quarterly review. v.1-date. 1853-date.....ro52 L82
- LONDON review; quarterly. *See* Westminster review.
- LONGMAN'S magazine; monthly, Nov. 1882-date. v.1-date.
 1883-date.ro52 L83
- MACMILLAN'S magazine; monthly, Nov. 1859-date. v.1-
 date. 1860-date.....ro52 M21
- MONTHLY review. v.1-date. 1900-date.....qro52 M86
- MURRAY'S magazine; a home and colonial periodical;
 monthly. 10v. 1887-91.....ro52 M97
 No more published.
- NATIONAL review; monthly. v.1-date. 1883-date.....ro52 N155
- NATIONAL review; quarterly. 19v. 1855-64.....ro52 N15
 No more published.
- NEW review; monthly. 17v. 1889-97.....ro52 N28
 No more published.
- NINETEENTH century; monthly. v.1-date. 1877-date....ro52 N36
- NORTH British review; quarterly. 53v. 1844-71.....ro52 N45
 No more published.
- NOTES and queries; weekly, Nov. 1849-date. v.1-date.
 1850-date.ro52 N47
 ———Index, v.1-12. 1856.
 ———Index, v.13-24. 1862.
 ———Index, v.25-36. 1868.
 ———Index, v.37-48. 1874.
 ———Index, v.49-60. 1880.
 ———Index, v.61-72. 1886.
 ———Index, v.73-84. 1892.
 ———Index, v.85-96. 1898.
- ONCE a week; July 2, 1859-Aug. 29, 1874. v.1-30. 1859-74..ro52 O25

- OUTLOOK** in politics, life, letters and the arts; weekly. v.1-date. 1898-date.....qro52 O32
- PALL** Mall magazine; monthly. v.1-date. 1893-date.....ro52 Pr8
- PENNY** magazine; weekly. 16v. in 15. 1832-46.....qro52 P41
v.15-16 title reads "Knight's penny magazine."
No more published.
- PUNCH**; weekly, July-Dec. 1896, 1898-date. v.III, 114-date.
1896-date.....qro52 P98
- QUARTERLY** review, Feb. 1809-date. v.1-date. 1810-date..ro52 Q19
— General index, v.1-19. 1820.
— General index, v.21-39. 1831.
— General index, v.41-59. 1839.
— General index, v.61-79. 1850.
— General index, v.81-99. 1858.
— General index, v.101-120. 1867.
— General index, v.122-139. 1876.
— General index, v.141-159. 1885.
— General index, v.161-180. 1895.
- RETROSPECTIVE** review. 18v. 1820-54.....ro52 R36
Not published between the years 1829 and 1852.
- SCOTTISH** review; quarterly. v.1-date. 1883-date.....ro52 S42
- SPIELMANN**, Marion Harry.
History of "Punch." 1895.....052 S75
- SPIRIT** of the public journals, 1797-1801. v.1-5. 1799-1802...ro52 S75
Annual selections, chiefly prose, from the contemporary newspapers and other publications.
- STRAND** magazine; an illustrated monthly. v.1-date. 1891-date.ro52 S89
- TAIT'S** Edinburgh magazine; monthly. v.11-12. 1844-45..qro52 T14
- TEMPLE** bar; a London magazine; monthly. v.1-date.
1861-date.ro52 T28
— Index, v.1-99, 1860-1893.
- TIME**; a monthly miscellany. 23v. 1879-90.....ro52 T47
No more published.
- UNIVERSAL** review; ed. by Harry Quilter; monthly, May 1888-Dec. 1890. 8v. 1888-90.....qro52 U25
No more published.
- UNIVERSITY** magazine. See Dublin university magazine.
- WALFORD'S** antiquarian magazine and bibliographical review. See Antiquarian magazine.
- WESTMINSTER** review; quarterly and monthly. v.1-date.
1824-date.qro52 W56
For changes in title and numbering of volumes see Boston Athenæum catalogue, v.5, p.3297.
- WORLD**, by Adam Fitz-Adam; weekly. 4v. 1753-56.....qro52 W89
Edited by Edward Moore, who wrote 61 out of 210 numbers. No more published.
"My design in this paper is to ridicule, with novelty and good-humour, the fashions, follies, vices and absurdities of the human species which calls itself the World, and to trace it through all its business, pleasures and amusements." *Editor*.
Among the contributors to the "World" were Lord Lyttelton, its projector, the earls of Chesterfield, Bath and Cork, and Horace Walpole.

053-055 Foreign periodicals

- DEUTSCHE** rundschau; hrsg. von Julius Rodenberg; monthly. v.1-date. 1874-date.....ro53 D48
— Generalregister, v.1-40. 1885.
— Generalregister, v.41-80. 1896.

- ÜBER land und meer; allgemeine illustrierte zeitung; weekly.
v.49-54. 1883-85.....qr053 U12
- REVUE des deux mondes; bi-weekly, 65e année-date. v.132-
date. 1895-date.....qr054 R37
- REVUE politique et littéraire, revue bleue; weekly. series 4,
v.7-date. 1897-date.....qr054 R37r
- NUOVA antologia di lettere, scienze ed arti; semi-monthly.
v.169-date. 1900-date.....r055 N52

060 General societies

- BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
Year-book, 1893/94, 1898/99-1899/1900. v.6, 11-12. 1894-
1900.r061 B77
- ESSEX INSTITUTE, Salem, Mass.
Bulletin; monthly, quarterly and semi-yearly, 1869-date.
v.1-30. 1870-98.....r061 E84
No more published.
Proceedings, and communications, 1848-1870. 6v. in 3.
1856-71.r061 E84p
v.4-6, "Proceedings" and "Communications" have separate title-pages.
No more published.
- ROYAL SOCIETY OF CANADA.
Proceedings and transactions, 1882-1894, 1900-date. v.1-12,
19-date. 1883-date.....qr061 R81
v.12 contains a general index to v.1-12.
- HUME, Abraham.
Learned societies and printing clubs of the United King-
dom. 1847.....r062 H92

070 Newspapers, journalism

- BOURNE, Henry Richard Fox.
English newspapers; chapters in the history of journalism.
2v. 1887.....072 B65
- BUCKINGHAM, Joseph Tinker.
Specimens of newspaper literature. 2v. 1852.....r071 B85
- COOPER, Charles Alfred.
An editor's retrospect; fifty years of newspaper work. 1896..070 C78
- DANA, Charles Anderson.
Art of newspaper making. 1895.....070 D19
- GRANT, James.
Newspaper press; its origin, progress and présent position.
3v. 1871.....r070 G78
v.3 title reads "The metropolitan weekly and provincial press."
- HARTMANN, Martin.
The Arabic press of Egypt. 1899.....079 H32
List of newspapers and periodicals that have appeared or are now (1899)
appearing in Egypt, p.52-86.

- HILL, Ashbel Fairchilds.
 Secrets of the sanctum; an inside view of an editor's life.
 1875.r070 H55
- HUDSON, Frederic.
 Journalism in the United States, 1690-1872. 1873.....071 H88
- PERRIN, William Henry.
 Pioneer press of Kentucky, from the printing of the first
 paper west of the Alleghanies, Aug. 11, 1787, to the
 establishment of the daily press in 1830. 1888. (Filson
 club. Publications.).....qr071 P44
- RITENOUR, John S.
 Journalism as a profession. 1899.....070 R51
 First published in the "Forum," v.25.

Newspaper directories

- HUBBARD'S newspaper and bank directory of the world.
 v.3. 1883-84.....r070 H87
- PETTENGILL'S newspaper directory and advertisers' hand-
 book for 1877, comprising a complete list of the news-
 papers and other periodicals published in the United
 States and British America. 1877.....r071 P46
- REMINGTON, Edward Pym, *pub.*
 Annual newspaper directory, 1901-02; a list of all news-
 papers and other periodical publications of the United
 States and Canada. 2v. 1901-02.....r071 R333
- REMINGTON BROTHERS, *pub.*
 Newspaper manual; a catalogue of the newspapers of the
 United States and Canada, 1892. v.6. 1892.....r071 R33
- ROWELL, (George P.) & CO. *pub.*
 American newspaper directory, 1873, 1895, 1898, 1902. v.5,
 27, 30, 34. 1873-1902.....qr071 R79
- WILLING, James, *pub.*
 British & Irish press guide. v.22-date. 1895-date.....r072 W75

071 American newspapers

- AMERICAN manufacturer; weekly. v.12-13, no.28, in 1.
 1841-42. Pittsburgh.....qr071 A512
 United with the "Pittsburgh mercury" to form the "Pittsburgh post."
- AMERICAN weekly mercury, 1719-21. v.1-2. 1898.....qr071 A51
 Republished in facsimile by the Colonial society of Pennsylvania.
- BOSTON evening transcript; daily, Nov. 1, 1895-date. 1895-
 date.qr071 B64
- CHICAGO times-herald; daily, Nov. 5, 1895-date. 1895-date...qr071 C43
- GREENSBURG, Pa. Farmers' register; weekly, June 21, 1799-
 Apr. 24, 1802. v.1, no.5-v.2, no.153, in 1. 1799-1802.....qr071 G84
 v.1, no.6-11, 13, 34-35, 43, 47, 82-86, 93; v.2, no.111, 140, 146 wanting.
- HARPER'S bazar; weekly. v.1-date. 1867-date.....qr071 H284
 v.29-32 wanting.
- HARPER'S weekly. v.1-date. 1857-date.....qr071 H28

- ILLUSTRATED news, New York; weekly. v.1-2, no.48.
1853.qro71 I22
- INDEPENDENT; weekly. v.48-date. 1896-date.....qro71 I24
- INDEPENDENT balance, by Democritus the younger; weekly, Apr. 16, 1817-May 13, 1818, May 16-June 13, 1821.
v.1-2, no.5; v.5, no.6-10, in 1. 1817-21.....qro71 P39
v.1, no.16, 25, 37, 46; v.2, no.2; v.5, no.9 wanting.
Bound with the "Pennsylvania farmer."
- INDEX of Pittsburgh life; weekly, Oct. 6, 1900-date. v.6-date. 1900-date.....qro71 I242
- NATION; weekly. v.1-date. 1865-date.....qro71 N15
- NEW-YORK daily times, May 9, 1854-Nov. 29, 1896. v.3, no.824-v.46, no.14127. 1854-96.....qro71 N26d
v.3, no.824-825 title reads "New-York evening times." v.7, Jan.-Aug. 1858, wanting.
Sept. 6, 1857-Nov. 29, 1896 title reads "New-York times."
- NEW-YORK daily tribune, Jan. 1, 1859-date. v.18-date. 1859-date.qro71 N261t
"New-York tribune," Nov. 6-7, 14, 1857; Dec. 3-5, 7-9, 11, 19, 1857; July 17, 19, 21, 26, 27, 28, 1858 bound with v.7-8, Sept.-Dec. 1858, of the "New-York times."
April 10, 1866-date title reads "New-York tribune."
Index to the daily Tribune, 1876-77, 1880-88, 1890-date. 1876-date.ro71 N261
- NEW YORK, Evening post; daily. v.93-date. 1894-date..qro71 N26e
- NEW-YORK mirror; a weekly journal. v.16. 1838-39.....qro71 N26
- NEW YORK, Sun; daily, July 1, 1884-date. v.51, no.305-date. 1884-date.....qro71 N26s
- OUTLOOK; weekly. v.48-date. 1893-date.....qro71 O32
- PENNSYLVANIA farmer; weekly, Aug. 26, 1812-Sept. 1, 1813. v.1-2, no.2, in 1. 1812-13.....qro71 P39
v.1, no.35, 39, 42 wanting.
- PENNSYLVANIAN; daily, Nov. 13, 1846-Dec. 30, 1850. v.28, no.4701-v.35, no.6977, in 4. 1846-50.....qro71 P399
May-Dec. 1849 wanting.
- PHILADELPHIA, North American; daily, Feb. 6, 1877-Apr. 26, 1878. 1877-78.....qro71 P49
Running title reads "Philadelphia North American and United States gazette."
- PHILADELPHIA, Press; daily, Jan. 4, 1858-date. v.1, no.131-date. 1858-date.....qro71 P49p
Dec. 11-17, 1866; Feb. 6, 1877-Apr. 22, 1878, wanting.
July 5, 1880-Feb. 2, 1885 title reads "Philadelphia press."
- PHILADELPHIA, United States gazette; semi-weekly, Apr. 7-Dec. 8, 1813. v.13, no.1238-1308. 1813.....qro71 P494
Imperfect.
- PITTSBURG bulletin; a weekly journal, Nov. 9, 1895-date. v.32-date. 1896-date.....qro71 P67b
- PITTSBURGH chronicle telegraph; daily, Jan. 2, 1884-date. 1884-date.qro71 P674
Formed by the union of the "Pittsburgh morning chronicle" and the "Pittsburgh evening telegraph."
- PITTSBURGH commercial; daily, July 1, 1864-Feb. 14, 1877. v.1, no.249-v.14, no.134. 1864-77.....qro71 P67c
On Feb. 15, 1877, the "Pittsburgh commercial" united with the "Pittsburgh gazette" under the title "Pittsburgh gazette-commercial."

- The same*; weekly, Nov. 9, 1867–Oct. 31, 1868, 1869, 1872, 1875. v.5, v.6, no.9–v.7, no.8, v.9, no.9–v.10, no.8, v.12, no.8–v.13, no.7, in 4. 1867–75.....qr071 P67co
- PITTSBURGH**, Daily advocate and advertiser; Oct. 18, 1839–Nov. 6, 1840. v.8, no.16–v.9, no.32. 1839–40.....qr071 P67dai
The Pittsburgh "Weekly advocate and emporium," Nov. 13, 1840–Jan. 29, 1841; and the "Pittsburgh gazette," Nov. 20, 27, Dec. 18, 1840 are bound with the Pittsburgh "Daily advocate and advertiser."
- PITTSBURGH**, Daily commercial journal; Dec. 31–April 23, 1846, Jan. 1, 1848–April 30, 1849. v.4–5. 1846–49....qr071 P67d
- PITTSBURG** daily dispatch; Aug. 9, 1847–Dec. 1850; Jan. 1855–Jan. 1863; Jan. 1864–June 1864; Nov. 4, 1895–date. 1847–dateqr071 P67di
Nov. 4, 1895–date title reads "Pittsburg dispatch."
- PITTSBURG** daily news, March 16, 1896–Jan. 8, 1901. 19v. 1896–1901.....qr071 P67n
No more published.
- PITTSBURGH**, Daily Pittsburgher; Jan. 3, 1840–Oct. 28, 1840. v.1, no.211–v.2, no.142, in 1. 1840.....qr071 P67da
- PITTSBURGH** evening telegraph; daily, Apr. 16, 1873–Dec. 31, 1883. 1873–83.....qr071 P67te
United with the "Pittsburgh morning chronicle" to form the "Pittsburgh chronicle telegraph."
May 6, 1876–Dec. 1883 title reads "Pittsburgh telegraph."
- The same*; weekly, Mar. 27, 1847–Mar. 22, 1848, Apr. 17, 1875–Aug. 21, 1880. 1847–80.....qr071 P67tez
Mar. 27, 1847–Mar. 22, 1848 title reads "Pittsburgh telegraph;" Apr. 17, 1875–Aug. 21, 1880 title reads "Pittsburgh weekly telegraph."
- PITTSBURGH**, Der freiheits freund; daily, Dec. 10, 1844–date. 1844–date.....qr071 P67f
May 8–Dec. 13, 1847, 1849, Jan.–June 1850, Mar. 28–July 19, 1853 wanting.
Dec. 1844–Nov. 1845, Dec. 1847–Dec. 1848, July–Dec. 1850 title reads "Der freiheits freund und Pittsburger beobachter;" May 1851–Mar. 1852 title reads "Der tägliche freiheitsfreund;" July 1860–Dec. 1864 title reads "Der freiheits freund und Pittsburger courier;" Feb. 1901–date title reads "Volksblatt und freiheits-freund."
- The same*; weekly, July 2, 1852–June 29, 1866, Jan. 3, 1873–June 27, 1890. 1852–90.....qr071 P67fi2
July 1852–Sept. 1860 title reads "Der freiheits freund und Pittsburger beobachter;" Oct. 1861–June 1866, Jan. 1873–June 1890 title reads "Der freiheits freund und Pittsburger courier."
- PITTSBURGH** gazette; daily, July 30, 1833–date. v.48, no.91–date. 1833–date.....qr071 P67g
Aug. 1834–Dec. 1835, Apr. 12–Oct. 31, 1836, July 1837–Oct. 16, 1839, Feb. 25, 1841–July 23, 1844 wanting.
The "Pittsburgh gazette" for Nov. 20, 27, Dec. 18, 1840 is bound with Pittsburgh, "Daily advocate and advertiser," v.8–9.
The "Weekly gazette" for Jan. 1–March 18, 1868 is bound with v.82–83 of the "Pittsburgh gazette."
The "Pittsburgh weekly gazette" for Jan. 1–June 28, 1873, is bound with v.88 of the "Pittsburgh gazette."
Various titles read "Pittsburgh daily gazette and advertiser," "Pittsburgh daily gazette," "Daily Pittsburgh gazette," "Daily Pittsburgh gazette and commercial journal."
On Feb. 15, 1877 the "Pittsburgh commercial" united with the "Pittsburgh gazette" under the title "Pittsburgh gazette-commercial."
Feb. 26, 1877–date title reads "Pittsburgh commercial gazette."
- PITTSBURGH**, Iron city and Pittsburgh weekly chronicle, Nov. 27, 1841–Nov. 19, 1842, Jan. 5, 1853–July 26, 1854. v.1, v.12, no.6–v.13, no.40, in 2. 1841–54.....qr071 P67i

- PITTSBURG leader; daily, Nov. 4, 1895-date. v.47, no.146-date. 1895-date.....qro71 P67l
- PITTSBURGH mercury; weekly, July 9, 1812-June 24, 1815; July 4, 1817-June 15, 1824; July 5, 1826-June 3, 1828; Jan. 1, 1835-Aug. 31, 1842. v.1-3, 6-12, 15-16, 23, no.1183-v.31, no.27, in 10. 1812-42.....qro71 P67me
United with the "American manufacturer" to form the "Pittsburgh post."
- PITTSBURGH, Morning chronicle; daily, Feb. 16, 1842-Sept. 29, 1883. 1842-83.....qro71 P67m
July 1, 1848-Sept. 16, 1849, Mar. 29, 1855-Feb. 10, 1856, May 8, 1856-Feb. 7, 1858, Aug. 12, 1863-Feb. 11, 1864, Feb. 1-Aug. 31, 1868 wanting. Oct. 17, 1851-Sept. 29, 1883 title reads "Pittsburgh evening chronicle." United with the "Pittsburgh evening telegraph" to form the "Pittsburgh chronicle telegraph."
- PITTSBURGH post; daily. v.1-date. 1842-date.....qro71 P67
Formed by the union of the "American manufacturer" and "Pittsburgh mercury."
- PITTSBURG press; daily, Nov. 4, 1895-date. v.12, no.305-date. 1895-date.....qro71 P67p
- PITTSBURGH, Saturday dollar chronicle, Aug. 27, 1859-Dec. 28, 1861. 1859-61.....qro71 P67s
- PITTSBURG times; daily, Nov. 4, 1895-date. v.16, no.259-date. 1895-date.....qro71 P67t
- PITTSBURGH times; weekly, Nov. 8, 1837-Nov. 21, 1838. v.7-8, in 1. 1837-38.....qro71 P67ti
- PITTSBURGH, Weekly mercury and manufacturer; Sept. 10, 1842-July 19, 1845. v.1, no.1-v.3, no.46, in 3. 1842-45..qro71 P67w
- POULSON'S American daily advertiser, June 2, 1819-Dec. 1, 1819. v.48. 1819.....qro71 P86
- PUBLIC opinion; weekly. v.1-date. 1886-date.....qro71 P98
- REMARQUES; a home news-magazine; weekly, Sept. 1, 1900-Feb. 23, 1901, Sept. 13, 1902-Jan. 28, 1905. v.1, 4-5. 1900-05. Pittsburgh.....qro71 R331
Discontinued.
- ROWELL, (George P.) & CO. *pub.*
American newspaper directory, 1873, 1895, 1898, 1902. v.5, 27, 30, 34. 1873-1902.....qro71 R79
- SATURDAY evening post; weekly, Oct. 14, 1826-Dec. 29, 1832. v.5, no.272-v.12, no.596, in 2. 1826-32.....qro71 S25
v.10-12 title reads "Atkinson's Saturday evening post."
- The TICKLER, by Toby Scratch 'em; weekly. v.2, no.18-v.3, no.14, in 1. 1809-10.....qro71 P39
v.2, no.23, 27, 45, 47-48 wanting.
Bound with the "Pennsylvania farmer."
- UNIONTOWN, Pa. Genius of liberty; weekly, Apr. 25, 1872-Dec. 27, 1900. v.68-96. 1872-1900.....qro71 U253
v.69, no.30, 32; v.70, no.11; v.71, no.24, 47; v.75, no.8; v.79, no.4, 28-31; v.96, no.32 wanting.
- The UNIVERSE; an illustrated weekly newspaper for young people and busy men and women. v.1, pt.1-4, in 5. 1898-Feb. 16, 1899.....rjo71 U25
No more published.
- WASHINGTON, (D. C.) Daily morning chronicle, Nov. 21, 1867-Sept. 5, 1870. v.6-8, in 6. 1867-70.....qro71 W27d

- WASHINGTON, (D. C.) Daily national intelligencer, Feb.
12, 1836-March 30, 1867. v.24-67, in 38. 1836-67....qro71 W27da
Jan. 1838-Sept. 1840 wanting.
- WASHINGTON, (D. C.) Daily union, May 1, 1846-March 6,
1847; Aug. 20, 1848-May 13, 1849. v.2, 4-5, in 2. 1846-49...qro71 W27
- WASHINGTON, (D. C.) National intelligencer; tri-weekly,
Jan. 15, 1818-Dec. 29, 1853. v.19-54, in 16. 1818-53...qro71 W27n
Oct. 1819-Nov. 1829 wanting.

072-073 English and German newspapers

- ACADEMY; monthly and weekly. v.1-date. 1869-date....qro72 A16
In Jan. 1902 "Literature" was incorporated with the "Academy" under
the title "Academy and literature."
- ATHENÆUM; weekly. v.1-date. 1828-date.....qro72 A86
- GRAPHIC; an illustrated weekly newspaper, Dec. 1869-Dec.
1870, Jan. 1900-date. v.1-2, 61-date. 1870-date.....qro72 G79
- ILLUSTRATED London news; weekly, May 1842-date. v.1-
date. 1843-date.....qro72 I22
- LONDON, Evening mail; semiweekly, Nov. 2-5, 1792, Oct.
23, 1793-Apr. 8, 1795. 1792-95.....qro72 L821
- LONDON, Times; daily, Jan. 2, 1871-date. 1871-date.....qro72 L82
Jan. 1892-Oct. 22, 1895 wanting.
- PALMER, Samuel, *pub.*
Index to the Times newspaper, April 1, 1873-date. v.40-
date. 1877-date.....ro72 P19
- SMITH'S index to the leading articles of the Times, for the
five years ended Dec. 1900. pt.1.....ro72 S66
pt.1. Proper names (places excepted).
- SATURDAY review of politics, literature, science and art;
weekly. v.1-date. 1856-date.....qro72 S25
- SPECTATOR; a weekly journal. v.5-date. 1832-date.....qro72 S74
v.26, 1853; v.32, 1859; v.36-43, 1863-1870, wanting.
- Die NATION; wochenschrift für politik, volkswirthschaft und
litteratur, Oct. 6, 1900-date. v.18-date. 1900-date....qro73 N15

090 Book rarities

- GOSSE, Edmund William.
Gossip in a library. 1893.....090 G69
Contents: Camden's Britannia.—A mirror for magistrates.—A poet in
prison, Wither.—Death's duel.—Gerard's Herbal.—Pharamond.—A vol-
ume of old plays.—A censor of poets, Winstanley.—Lady Winchilsea's
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APPIANUS, of Alexandria.

Delle gverre civili et esterne de Romani, aggiuntoui alla fine un libro del medesimo delle guerre di Hispagna, non più ueduto. 2v. 1551.....r094 A64
The imprint is In Vinegia, in casa de' figliuoli di Aldo.

CAXTON, William.

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This is the seventh of the publications of the Kelmscott press and was set up from a transcript of Caxton's first edition loaned by the Cambridge university library. It has a woodcut title, the first one designed by William Morris, and two other woodcuts designed by Burne-Jones.

CLUVERIUS, Philippus.

Introductio in universam geographiam, tam veterem quam novam, libri VI; accessit P. Bertij Breviarium orbis terrarum. 1677.....r094 C62
The imprint is Amstelodami, apud Elzevirios.

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Etlche schöne trost, schrifte des ehrwürdigen Herrn Doctoris Martini Lutheri; so er an den durchleuchtigste, fürsten uñ Herrn Hertzog Joannes, churfürsten zu Sachsen, gottseliger gedechtnis, und an andere seine herrn und gute freunde gethan, sehr tröstlichen zu lesen. 1547.....r094 L98

MATURANTIUS, Franciscus.

De componendis carminibus opusculum; Nicolai Perotti

- Sypontini De generibus metrorum; Eiusdem De Horatii Flacci ac Severini Boetii metris; Omni boni Vicentini De arte metrica libellus; Servii Mauri honorati grammatici Centimetrum. 1512. Venetiis.....r094 M48
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Latin poems. Of interest chiefly as a specimen of early printing. Type is mostly italic. Contains an index and is bound in the original stamped calf. Printed by Tornæsius.

WAGNER, Bartholomæus.

- Hundert alldächtiger gottseliger vund catholischer lehrreicher ausslegungen oder predigen uber alle sontägliche und feyertägliche evangelien dess gantzen jahrs. 1607.q094 W13
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Contents: History of the woodcutters.—Catalogue of the woodcuts.—List of the books containing woodcuts.

HUMPHREYS, Henry Noel.

- The illuminated books of the middle ages, illustrated by Owen Jones. 1849.....q096 H92
Account of the development and progress of the art of illumination as a distinct branch of pictorial ornamentation, from the 4th to the 17th centuries. The illustrations, printed in colors and of the size of the originals, were chosen from the most beautiful mss of the period.

POLLARD, Alfred William.

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QUARITCH, Bernard, *pub.*

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SHAW, Henry.

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In early ages monasteries were the schools of art, and these beautiful examples of the work of the monks, still extant, in the illuminations of both religious and profane books, are evidences of their skill and patience. The art died out soon after the birth of printing. This volume exhibits, in facsimile, some of the richest work in this line.

- Illuminated ornaments selected from manuscripts and early printed books from the 6th to the 17th centuries, with descriptions by Sir Frederic Madden. 1833.....q096 S53

TREDWELL, Daniel M.

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WYATT, Sir Matthew Digby.

Art of illuminating as practised in Europe from the earliest times, illustrated by borders, initial letters and alphabets, selected & chromolithographed by W. R. Tymms.

1860.qro96 W97

M., T. of *New York, comp.*

Witty, humorous and merry thoughts.....ro99 M11

This and the following book are examples of minute size and typography. Each is accompanied by a magnifying glass.

STOKES, (Frederic A.) CO. *pub.*

Smallest English dictionary in the world.....ro99 S87

097 Book-plates

ALLEN, Charles Dexter.

American book-plates, with a bibliography by E. N. Hewins.

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BOWDOIN, William Goodrich.

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English book-plates; an illustrated handbook. 1892.....097 C27

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ASHTON, John.

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AUBREY, John.

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- HOPKINS, Nevil Monroe.**
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- KINGSFORD, Mrs Anna (Bonus), & Maitland, Edward.**
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- LANG, Andrew.**
Book of dreams and ghosts. 1897.....133 L23
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- MASSEY, Gerald.**
Concerning spiritualism133 M45
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- MATHER, Cotton.**
The wonders of the invisible world; an account of the tryals of several witches lately executed in New-England; to which is added a farther account of the tryals of the New-England witches, by Increase Mather.
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Remarkable providences illustrative of the earlier days of American colonization; with introductory preface by George Offor. 1890.....133 M46g
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WHITING, Lilian.

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AMES, Mrs Eleanor Maria (Easterbrooks), (*pseud.* Eleanor Kirk).

Influence of the zodiac upon human life. 1894.....133.5 A51

Astrological. Details the characteristics of those born under the different signs of the zodiac.

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GALTON, Francis.

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FLOURNOY, Théodore.

From India to the planet Mars; a study of a case of somnam-

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Phantasms of the living, by Edmund Gurney, F. W. H.

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HART, Ernest.

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A selection from papers contributed to various journals during a period of fifteen years. The majority are on psychological subjects.
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A sensible, practical discussion of the problem, not taking up the question of home training.

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- v.3. A letter occasioned by one of Archbishop Tillotson's sermons.—Concerning the nature, extent and reality of human knowledge.—Containing some reflections on the folly and presumption of philosophers.—Concerning authority in matters of religion.
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"Among our books we have a 'Religio medici' and a 'Religio poetarum,' but not a *Religio pictoris*, yet it may be well that the painter should set forth the faith that is in him, because from the nature of his calling he has some special advantages for dealing with the deeper problems of life." *Introduction*.

MILMAN, Henry Hart.

Savonarola, Erasmus, and other essays. 1870.....204 M71

Contents: Savonarola.—Life of Erasmus.—The popes of the 16th and 17th centuries.—Clement XIV and the Jesuits.—Newman on the development of Christian doctrine.—Relation of the clergy to the people.—Pagan and Christian sepulchres.

Originally appeared in the *Quarterly review*, and are partly historical, partly controversial, attacking the doctrines and practices which the leaders of the Tractarian movement were then [1846-1856] trying to engraft on the Church of England.

"It is his [Milman's] extensive learning, his vigorous style, his pictorial brilliancy, and, above all, his power of conveying in a few sentences a vivid and correct impression of character and events which have created his fame...The first two [essays] in the volume are excellent samples of his pen." *Athenaeum*, 1870.

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"Twenty-three short essays—many of them rather sermons than essays—on such topics as 'Peace in Life and Art,' 'Ancient and Modern Ideas of Purity,' 'Emotional Art,' 'Conscience,' 'Distinction'...To the average reader the book must be nothing but the vainest speculation and the dullest theory. Yet, in many ways, it is one of the most beautiful and notable works in prose that have appeared in recent years...The subjects with which these essays deal may be grouped under three heads: religion, art, and woman." *Athenæum*, 1893.

PFLEIDERER, Otto.

Evolution and theology, and other essays; ed. by Orello

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Other essays: Theology and historical science.—Luther as the founder of Protestant civilisation.—The essence of Christianity.—The notion and problem of the philosophy of religion.—The task of scientific theology for the church of the present.—Jesus' foreknowledge of his sufferings and death.—The national traits of the Germans as seen in their religion.—Is morality without religion possible or desirable?—Free from Rome!

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v.2. The Hampden controversy.—Tracts for the times.—Froude's "Remains."—The high church theory of dogmatical authority.—Anglican claims of apostolical succession.—The Catholic and Anglican churches.—The Anglican system.—Protestantism of the Anglican church.—Unreality of Anglican belief.—Position of the high church theory at the close of 1847.—The fourth of October.

v.3. Papers on history, antiquities and art.—Pope Boniface VIII.—St. Elizabeth of Hungary.—Brief account of the council held at Constantinople, 1166.—On the writings of St. Ephrem.—Account of a recently discovered Christian inscription.—Remarks on Lady Morgan's statement regarding St. Peter's chair.—The Roman forum.—Christian art.—Spanish and English national art.—Superficial travelling.—Italian guides and tourists.—Religion in Italy.—Italian gesticulation.—Early Italian academies.—Sense v. science.

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AMERICAN journal of theology; ed. by the divinity faculty of the University of Chicago; quarterly. v.1-date. 1897-

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ANDOVER review; a religious and theological monthly.

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conducted by R. J. Breckinridge and A. B. Cross. 7v.

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BIBLICAL repertory and Princeton review; quarterly. v.24-

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Running title reads Princeton review.

BIBLICAL repository; quarterly, Jan. 1831-Oct. 1850. 30v.

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v.5-8 title page reads Biblical repository and quarterly observer.

v.9-24 title page reads American biblical repository.

v.25-30 title page reads Biblical repository and classical review.

No more published.

Elaborate original and translated articles for the theologian and biblical student.

BIBLICAL world; monthly; new ser. v.1-date. 1893-date..r205 B4733

Continuation of the Old and New testament student.

BIBLIOTHECA sacra, and theological review; quarterly.

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- CALVINISTIC** monitor; monthly, July-Aug., Dec. 1839. v.1, no.
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Bound with Western Presbyterian herald.
- CHRISTIAN** advocate; monthly. 12v. 1823-34.r205 C461
Continuation of the Presbyterian magazine.
No more published.
- CHRISTIAN** advocate; weekly. v.63-69. 1888-93qr205 C4612
- CHRISTIAN** examiner and theological review; bi-monthly.
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v.36-62 title reads Christian examiner and religious miscellany.
v.63-85 title reads Christian examiner.
- CHRISTIAN** observer, conducted by members of the Estab-
lished church; monthly. 77v. 1802-1877.r205 C45
No more published.
v.75-77 title reads Christian observer and advocate.
v.21, which was to be an index volume, was never issued.
- CHRISTIAN** remembrancer; monthly and quarterly. 56v. 1841-
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- CHRISTIAN** spectator; monthly and quarterly. 20v. 1819-
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No more published. In 1839 united with the American biblical repository.
- CHURCH** and the world; quarterly. v.1-3. 1872-74.r205 C468
- CHURCH** at home and abroad; published monthly by order
of the General assembly of the Presbyterian church.
24v. 1887-98.r205 C46
No more published.
- CHURCH** quarterly review; Oct. 1875-date. v.1-date. 1876-
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- CRITICAL** review of theological & philosophical literature;
quarterly. v.1-date. 1891-dater205 C88
- ENGLISH** review; or, Quarterly journal of ecclesiastical and
general literature. 19v. in 18. 1844-53.r205 E64
No more published, v.19 consists of one number only.
- GOOD** words; weekly and monthly. v.1-date. 1860-date.r205 G62
- JOURNAL** of sacred literature; ed. by John Kitto and others;
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v.1-11 were edited by John Kitto.
v.15-38 title reads Journal of sacred literature and biblical record.
No more published.
- JOURNAL** of the Society of biblical literature and exegesis;
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- LITERARY** and theological review; quarterly. 6v. 1834-39.r205 L74
No more published.
- MERCERSBURG** review; quarterly. 43v. 1849-96r205 M63
v.1-4 published bi-monthly.
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- METHODIST** magazine; monthly, 1818-1828, 1834, 1839. v.1-
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From 1829 to 1840 title reads Methodist magazine and quarterly review,
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Continued as the Methodist quarterly review.
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- METHODIST** quarterly review. 3d ser. v.1-date. 1841-dater205 M64
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- MODERN** review; quarterly. 5v. 1880-84.....r205 M76
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- MONTHLY** religious magazine; Jan. 1844-Feb. 1874. 5iv. in 38.
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- NEW world**; a quarterly review of religion, ethics and theology.
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- NEW YORK** observer; weekly, Aug. 4, 1832-Dec. 28, 1865.
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- OPEN** church; quarterly, Jan. 1897-Sept. 1899. 3v. 1897-99.....r205 O26
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- PITTSBURG** recorder; weekly, Jan. 25, 1822-June 13, 1823.
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- PRESBYTERIAN** quarterly review, June, 1852-March, 1857,
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- PRESBYTERIAN** review; quarterly. 10v. 1880-88.....r205 P92
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- PRINCETON** review; new ser. bi-monthly. 14v. in 10. 1878-84r205 P95
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- QUARTERLY** register and journal of the American education society. 15v. 1829-43r205 Q19
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No more published.
- QUARTERLY** review of the Evangelical Lutheran church. v.1-date. 1871-dater205 Q192
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- "SALVATION"**; a new evangelical monthly. v.1. 1899.....r205 S18
- SPIRIT** of the 19th century; ed. by R. J. Breckinridge; monthly.
2v. 1842-43.....r205 S75
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Continuation of the Baltimore literary and religious magazine.

- SPIRIT of the Pilgrims**; a monthly magazine. 6v. 1828-33. .r205 S759
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- SUNDAY** magazine; monthly. v.1-date. 1865-date.qr205 S95
- UNITARIAN** review and religious magazine; monthly, Mar. 1874-
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- WEEKLY** recorder; a newspaper conveying intelligence, under
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- WESTERN** Presbyterian herald; weekly, Sept. 21, 1837-Nov. 7,
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- GREEN**, Samuel Gosnell.
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208 Collected works

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- DANA**, John Monroe, *comp.*
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- v.4-6. The Christian philosopher; or, The connexion of science and philosophy with religion.—On the mental illumination and moral improvement of mankind.—An essay on the sin and the evils of covetousness, and the happy effects which would flow from a spirit of Christian beneficence.
- v.7-9. Celestial scenery; or, The wonders of the planetary system displayed, illustrating the perfections of Deity and a plurality of worlds.—The sidereal heavens and other subjects connected with astronomy.—The practical astronomer.

IRVING, Edward.

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- v.1. On the word of God.—The parable of the sower.—Missionaries after the Apostolical school.—Ordination charge.—Historical view of the Church of Scotland before the reformation.—Notes on the standards of the Church of Scotland.
- v.2. John the Baptist.—The temptation.—Homilies of baptism.—Homilies on the Lord's supper.
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- v.5. Sermons on public occasions. — Sermons on several subjects. — Tracts.
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TAYLOR, Jeremy.

Whole works; with a life of the author and a critical examination of his writings by Reginald Heber. 10v.

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- v.7. Unum necessarium. — Deus justificatus. — Letters to Warner and Jeaneas.—Golden grove.—Hymns.
- v.8. Worthy communicant. — Supplement of sermons. — Collection of offices.
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209 History of religion

ADENEY, Walter Frederic.

A century's progress in religious life and thought. 1901....209 A23

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BRINTON, Daniel Garrison.

Religions of primitive peoples. 1897. (American lectures on the history of religions.)209 B75

CAIRD, Edward.

Evolution of religion; the Gifford lectures delivered before the University of St. Andrews in sessions 1890-91 and 1891-92. 2v. 1899209 C12
The first lecture contains a general statement of the problem, and the next six are devoted to an explanation of the principles upon which the author bases his view of religion and its history. The rest of the book is confined almost entirely to the development of the Jewish and the Christian religions.

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The early spread of religious ideas especially in the far East. 1893. (By-paths of Bible knowledge.).....209 E28
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"The work is intended primarily for students who require an introduction to the history of religion, but will also, it is hoped, prove interesting to students of folk-lore and anthropology, and to the wider circle of general readers." *Preface.*

LANG, Andrew.

Making of religion. 1898209 L23
Partial contents: Anthropology and religion.—Crystal visions, savage and civilised.—Anthropology and hallucinations.—Demoniacal possession.—Fetichism and spiritualism.—High gods of low races.—Theories of Jehovah.

MACKINTOSH, William.

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- Contains numerous bibliographies.
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210 Natural theology

- ARGYLL, George Douglas Campbell, duke of.
- The philosophy of belief; or, Law in Christian theology.
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- Contents: Intuitive theology.—The theology of the Hebrews.—Christian theology.—Christian belief.
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- Memoir of the author, by Edward Caird, v.1, p.9-141.
- v.1. Natural and revealed religion.—Faith and reason.—The Christian idea of God.—The relation of God to the world.—The origin and nature of evil; the Augustinian theory.
- v.2. The origin and nature of evil; the theory of negation or privation, the predominance of sense over spirit, the theory of free will.—The possibility of moral restoration.—The idea of the incarnation.—The idea of the atonement.—The kingdom of the spirit.—The future life.
- FISHER, George Park.
- Manual of natural theology. 1893.....210 F53
- FISKE, John.
- Through nature to God. 1899.....210 F54
- Contents: The mystery of evil.—The cosmic roots of love and self-sacrifice.—The everlasting reality of religion.
- This little book is the natural sequel to two previous works of Mr Fiske—"The idea of God, as affected by modern knowledge," and "The destiny of man, viewed in the light of his origin." It seeks "to solve the tremendous mystery of evil so as to give man a fuller sense of his high calling and a firmer assurance of the infinite wisdom and benignity." It shows the range and power of love and self-sacrifice, and emphasizes the religious lesson which nature teaches.
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- GUYAU, Marie Jean.
- The non-religion of the future, a sociological study. 1897..210 G99
- Contents: Religious physics.—Religious metaphysics.—Religious morals.

—Dogmatic faith.—Symbolic and moral faith.—Dissolution of religious morality.—Religion and non-religion among the people.—Religion and non-religion and the child.—Religion and non-religion among women.—The effect of religion and non-religion on population and the future of the race.—Religious individualism.—Association; the permanent element of religions in social life.—Theism.—Pantheism.—Idealism, materialism, monism.

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The author condenses many facts of the material and moral world, obtaining as a result a single general law of mutual antagonistic principles which he terms "the all pervading principle of polarity."

PALEY, William.

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v.1. Morphological. v.2. Ontological.

"Prof. Tiele is a strong believer in the doctrine that there are laws of development applicable to religion, and that they are special forms and conditions of laws which are applicable to the human mind in general. The whole object of his volumes, as he expressly states, is to show that between pure science and true religion nothing but perfect and abiding harmony can prevail." *Spectator*, 1899.

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Edward Caird. 1898.....210 W17

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- v.7. My reviewers reviewed.—My Chicago Bible class.—To the Indianapolis clergy.—The Brooklyn divines.—The limitations of toleration.—A Christmas sermon.—Suicide of Judge Normile.—Is 'suicide a sin?—Is avarice triumphant?—A reply to the Cincinnati gazette and Catholic telegraph.—An interview on Chief Justice Comegys.—Reply to Drs Thomas and Lorimer.—Reply to Rev. John Hall and Warner Van Norden.—Reply to the Rev. Dr Plumb.—Reply to the New York clergy on superstition.
- v.8. Interviews.
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Political morality.—A few reasons for doubting the inspiration of the Bible.

v.12. Tributes and miscellany.

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LECKY, William Edward Hartpole.

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in Europe. 2v. 1893.....211 L48

"The author defines his purpose as an attempt to trace that spirit which 'leads men on all occasions to subordinate dogmatic theology to the dictates of reason and of conscience, and, as a necessary consequence, greatly to restrict its influence upon life'. . . The author traces the declining sense of the miraculous; the aesthetic, scientific, and moral developments of rationalism; the spirit of persecution; the secularization of politics; and the industrial history of rationalism." C. K. Adams.

MELLONE, Sydney Herbert.

Leaders of religious thought in the nineteenth century. 1902...211 M59

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v.2. Two-fold truth.—Relation of Christianity to free-thought. — The skepticism of St. Augustine.—Semi-skepticism of the schoolmen: Erigena; Abelard; Aquinas. — William of Ockam. — Raymund of Sabrieude.

The plan here adopted of discussions in the form of dialogues interspersed with essays, enables the author to introduce the many differing views, to which he is inclined by his comprehensiveness and his independence of thought.

PAINE, Thomas.

Age of reason; an investigation of true and fabulous the-

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"Paine's confession of faith is simple. He was an ardent Deist believing in a God who created the world, and who is known to mankind through the world which he created. Nature was Paine's Bible, and science its only interpreter...Surely these were not startling precepts. At the end of the eighteenth century, Deism had long been known both in France and England...Paine's language was not shaped for conciliation. He spoke with the brutal freedom of a reformer...He wrote in clear, strong English which the people could understand; and he wrote as one of them...Here was his originality and here his power...The shriek which went up when *The Age of Reason* was published has echoed and re-echoed unto this day. Its cause was partly horror, partly ignorance, but chiefly fear." E. Sedgwick.

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Ethic of freethought. 1887.....211 P35

Contents: The ethic of freethought.—The prostitution of science.—Mat-

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ROBERTSON, John Mackinnon.

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RYLANCE, Joseph Hine.

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Contents: On free thought.—On reason and faith.—On inspiration and infallibility.—On the racking doubt.—On existing dissensions between science and religion.—An historic foothold for faith.

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Quest of faith; notes on the current philosophy of religion.

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Discusses the aspect of the question whether and how far faith in the existence of a God may be justified, as it stands at the close of the 19th century.

SCHURMAN, Jacob Gould.

Agnosticism and religion. 1896.211 S39

"Full of thought, provocative of thought, clear in style, and pertinent to present day intellectual and spiritual needs." *Outlook*.

SETH, Andrew.

Two lectures on theism; delivered on the occasion of the sesquicentennial celebration of Princeton university.

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The secret doctrine; the synthesis of science, religion, and philosophy. 3v. 1893-95.212 B54s

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"Object... is to raise the question: If we accept the theory of evolution
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man who wishes to do his best in this world?" *Preface.*

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"My polemic, so far as it is such, will be found, I hope, aimed more
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CECIL, Hugh Mortimer.

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Mr Balfour's Foundations of belief.
No more published.
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Science and Hebrew tradition. 1894.....215 H98

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Old faiths and new faiths. 1896.....215 K27

Contents: Science and prayer.—Science and Christ.—Science and the life beyond.

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LAING, Samuel.

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MORRIS, Herbert William.

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PRESSENSÉ, Edmond de.

Study of origins; or, The problems of knowledge, of being and of duty. 1887.....215 P92

"I shall be truly happy if this book...do something to dispel the fatal misconception that science and conscience, liberty and religion, are incompatible." *Preface*.

ROMANES, George John.

Thoughts on religion; ed. by Charles Gore. 1899.....215 R65

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The two essays of Part I were written some time before 1889 but were not published before the author's death (1894). The "Notes" were among his unfinished papers. Show a tendency from a position of unbelief to one of belief in the Christian revelation.

SHALER, Nathaniel Southgate.

Interpretation of nature. 1893215 S52

Scientist's survey of latest results in science; candid and hopeful, pointing toward ultimate harmony between religion and science.

SHIELDS, Charles Woodruff.

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History of the warfare of science with theology in Christen-

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The same. 2v. 1896.....215 W63h
 In his preface the author emphasizes the point that in his opinion the struggle is between science and *theology*, not between science and religion.
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Critical history of the doctrine of a future life in Israel, in Judaism and in Christianity; or, Hebrew, Jewish and Christian eschatology from pre-prophetic times till the close of the New testament canon; the Jowett lectures for 1898-99. 1899218 C37
 Contains several bibliographies.

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Life everlasting. 1901218 F541

The Ingersoll lecture on the immortality of man, Dec. 19, 1900.
 The argument is on the lines of evolution, inferring from what man has already become that the logical next step in his progress is the attainment of the life everlasting.

HUDSON, Thomson Jay.

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McCONNELL, Samuel D.

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ROYCE, Josiah.

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STEWART, Balfour, & Tait, P. G.

Unseen universe; or, Physical speculation on a future state. 1894218 S84

WHEELER, Benjamin Ide.

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Die Bibel; das ist die ganze Heilige schrift des Alten und Neuen testaments nach Martin Luthers übersetzung, mit bildern der meister christlicher kunst; hrsg. von Rudolf Pfeleiderer. 3v. 1895.....qr220.5 B47bib
v.1-2. Altes testament. v.3. Neues testament.

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Bible in Arabicqr220.5 B47a

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List of manuscripts, v.1, p.39-64.
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The American revision committee have incorporated into the text the changes they preferred in the revision of 1885, which were rejected by the English committee, and have made many other changes in that version with the hope of adapting it for more general use.
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Old stories of the East. 1896j220 B19
- BENNETT, William Henry, & Adeney, W. F.
The Bible story retold for young people. 1898.....j220 B43
- BIBLE stories for young people. 1894.....j220 B47
Contents: The sacrifice of Noah, by W. E. Griffis.—An ancient court-

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BIBLE stories; in simple language for little children.....j220 B473

FOSTER, Charles.

Story of the Bible told in simple language. 1877.....j220 F81

FRAZER, James George, *comp.*

Passages of the Bible chosen for their literary beauty and interest. 1895.....220 F89

MEYER, Johann Friedrich von.

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PEAKE, Arthur Samuel

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TRUMBULL, Henry Clay, *and others.*

Hints on Bible study. 1898.....220 T77

BRIGGS, Charles Augustus.

The Bible, the church and the reason. 1892.....220.1 B74

List of the chief modern authorities who hold the modern critical views, p.236-247.

Biblical study; its principles, methods and history. 1884..220.1 B74b

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Catalogue of books of reference, p.429-488.

General introduction to the study of Holy scripture; the principles, methods, history and results of its several departments and of the whole. 1899.....220.1 B74g

CHADWICK, John White.

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The Bible and the child. 1896.....220.1 F25

GLADDEN, Washington.

Who wrote the Bible? 1898220.1 G45

Gives in compact and popular form the principal facts on which scholars now generally agree concerning the literary history of the Bible.

LADD, George Trumbull.

What is the Bible? an inquiry into the origin and nature of the Old and New testaments in the light of modern biblical study. 1894220.1 L13

LIAS, John James.

Principles of biblical criticism. 1893.....220.1 L68

RISHELL, Charles Wesley.

The higher criticism; an outline of modern biblical study.

1896220.1 R49

Written to furnish a concise answer to questions frequently asked concerning the higher criticism. Its province is not therefore to discuss and weigh, but to report the facts. Nevertheless, the careful reader will find the principles stated upon which the opponents of the critics proceed in their refutations." *Preface.*

SANDAY, William.

Inspiration; lectures on the history and origin of the doctrine of biblical inspiration. 1896. (Bampton lectures.).....220.1 S21

SAVAGE, Minot Judson.

Beliefs about the Bible. 1883.....220.1 S26

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Among many witnesses; a book for Bible students.

1891220.1 W74

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Elements of the higher criticism. 1895.....220.1 Z51

220.2 Concordances

CRUDEN, Alexander.

Complete concordance to the Old and New testaments.

1870.qr220.2 C89

STRONG, James, *comp.*

Exhaustive concordance of the Bible, showing every word of the text of the common English version, together with a comparative concordance of the authorised and revised versions; also brief dictionaries of the Hebrew and Greek words of the original, with references to the English words.

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YOUNG, Robert, 1822-1888, *comp.*

Analytical concordance to the Bible. 1893.....qr220.2 Y39

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BROWN, John, *of Haddington, comp.*

Dictionary of the Bible. 2v. 1811.....r220.3 B78

DAVIS, John D. *comp.*

Dictionary of the Bible. 1898.....r220.3 D31

ENCYCLOPÆDIA biblica; a critical dictionary of the Bible;

ed. by T. K. Cheyne and J. S. Black. v.1-3. 1899-

1902qr220.3 E62

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Dictionary of the Bible, dealing with its language, literature and contents. v.1-4. 1898-1902.....qr220.3 H34

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in many respects should in other respects fall so far short of the ideal of a modern Bible Dictionary." *Nation*, 1898.

SMITH, Sir William, *comp.*

Dictionary of the Bible. 4v. 1890-94.....r220.3 S66

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Biblisches realwörterbuch, zum handgebrauch für studierende, candidaten, gymnasiallehrer und prediger. 2v.
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A satire on various Protestant translations of the Bible.

COPINGER, Walter Arthur.

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The apocalypse of Baruch; tr. fr. the Syriac and ed. by R. H.

Charles. 1896229 B47a

A composite work believed to be contemporaneous with the chief writings of the New testament. It was written by orthodox Jews as an apology for Judaism, and an attack upon Christianity.

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v. 6. Tracts Yomah and Hagiga.

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v. 8. Tracts Taanith, Megilla and Ebel Rabbathi or Semáhoth.

v. 9. Tracts Aboth (Fathers of the synagogue), with Aboth of R. Nathan, Derech Eretz, Rabba and Zuta.

v. 10. Tracts Baba Kama.

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Author was a leader of Jewish thought and activity in America during the latter half of the 19th century. The founding of the Hebrew union college in Cincinnati was largely due to his efforts, he being its first president, from 1875 until his death in 1900. The biography which precedes the selections was written by two of Dr. Wise's pupils.

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- BEECHER, Henry Ward.
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- PITTSBURGH almanac, 1863-1875, 1879. 1862-78.....r317.3 P67
1863, published by J. P. Hunt; 1864-74, 1879, published by Henry Miner; 1875, published by S. C. Hill.
- PITTSBURGH leader almanac. v.2. 1873.....r317.3 P671
- PITTSBURGH magazine almanac, 1822-1824. v.10-12.....r317.3 F87
Bound with Franklin magazine almanac.
The almanac for 1824 is called the Pittsburgh almanac and is bound with Cramer's magazine almanack, r317.3 C86.
Contains stage roads leading from Pittsburgh, presiding justices of the courts, dates and places of the yearly meetings of Friends, etc.
- PITTSBURGH post almanac for 1896-date. v.1-date. 1896-dater317.3 P67a
None published for the years 1897, 1899 to 1901.
- PITTSBURGH press almanac. 1895-date.....r317.3 P67al
- TRIBUNE almanac comprehending the Politician's register and the Whig almanac, 1838-date. 1868-date.....r317.3 T73
- VIRGINIA almanac, 1823; calculated by Joshua Sharp. 1823r317.3 F879
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- WESTERN farmer's almanac, 1827-1829, 1832-1834, 1836. v.1-3, 6-8, 10, in 1. 1827-35.....r317.3 W56
v.1 title page reads Farmers' & mechanics' almanac.
v.1-3 bound with Cramer's magazine almanack, r317.3 C86.
Curious lists of stage routes leading from Pittsburgh to Philadelphia, to Detroit, Buffalo, Morgantown, Wheeling, etc. Also annual lists of marriages and deaths in Pittsburgh.

- WHIG almanac and politician's register, 1845, 1847-1850, 1854.
 1844-53r317.3 W62
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DISTURNELL, John, *comp.*

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GANNETT, Henry.

Building of a nation; the growth, present condition and resources of the United States, with a forecast of the future.

1894317.3 G16

Mainly statistical. A miscellaneous collection of maps, diagrams, figures and comparisons bearing upon the political, financial and industrial history of the United States.

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Hewes and Henry Gannett. 1883.....qr317.3 S43

SEYBERT, Adam.

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22. 1880-1900.....r317.3 U25sta

nos.2-8 will be found in the sheep bound set of congressional documents, nos.1923, 1978, 2030, 2108, 2198 and 2392.

United States census reports

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Statistical view of the population of the United States from

1790 to 1830; furnished in accordance with resolutions

of 26th February, 1833, and 31st March, 1834. 1835. (23d

cong. 1st sess. Senate. Doc.505.).....qr317.3 U25s

UNITED STATES—Census office. (3d census: 1810.)

Aggregate amount of each description of persons within the

United States and the territories thereof, agreeably to actual

enumeration made according to law, in 1810.

1811qr317.3 U25c3

Series of tables of the several branches of American manu-

factures, exhibiting them in every county of the Union,

so far as they are returned in the reports of the

marshals, and of the secretaries of the territories in the

year 1810; with returns of certain doubtful goods, pro-

ductions of the soil and agricultural stock. [Compiled

by Tench Coxe.] 1813.....qr317.3 U25c3s

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UNITED STATES—Census office. (4th census: 1820.)

Census for 1820. 1821.....qr317.3 U25c4

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Fifth census; or, Enumeration of the inhabitants of the

United States, 1830; to which is prefixed a schedule of the whole number of persons within the several districts of the United States taken according to the acts of 1790, 1800, 1810, 1820. 1832.....qr317.3 U25c5

The above contains the three parts mentioned in the following:

"The printed results of the fifth census are contained in a large folio volume of 163 pages; but the report was so badly printed that it was republished the same year by direction of Congress under the immediate supervision of the Secretary of State. The two reports were bound together in one volume, and were preceded by a statement of the population of the several districts of the United States at the censuses of 1790, 1800, 1810, 1820, by counties, followed by a recapitulation by districts."

UNITED STATES—Census office. (6th census: 1840.)

Census of pensioners for Revolutionary or military services, with their names, ages and places of residence, as returned by the marshals of the several judicial districts, under the act for taking the sixth census. 1841...qr317.3 U25c6p

Compendium of the enumeration of the inhabitants and statistics of the United States, from the 6th census, with an abstract of each preceding census. 1841.....qr317.3 U25c6c

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UNITED STATES—Census office. (7th census: 1850.)

Digest of the statistics of manufactures according to the returns of the seventh census. (35th cong. 2d sess. Senate. Ex. doc. no.39.).....r984

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J. D. B. De Bow. 1855.....r317.3 U25c7m

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[Final report of the 8th census.] 4v. 1864-66.....qr317.3 U25c8

v.1. Population of the United States in 1860.

v.2. Agriculture of the United States in 1860.

v.3. Manufactures of the United States in 1860.

v.4. Statistics of the United States (including mortality, property, etc.) in 1860.

Preliminary report on the 8th census, 1860, by J. C. G. Kennedy. 1862.....r317.3 U25c8p

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Compendium of the 9th census compiled under the direction of F. A. Walker. 1872.....r317.3 U25c9c

[Reports, final volumes.] 3v. 1872.....qr317.3 U25c9

v.1. Population and social statistics.

v.2. Vital statistics.

v.3. Wealth and industry.

Statistical atlas of the United States, based on the 9th census, 1870; comp. by F. A. Walker. 1874.....qr317.3 U25c9s

UNITED STATES—Census office. (10th census: 1880.)

Compendium of the 10th census. 2v. 1883.....r317.3 U25c10c

[Reports, final volumes.] 22v. 1883-88.....qr317.3 U25c10

Contents.

- AGRICULTURE.** Report on the productions of agriculture, embracing general statistics and monographs. v.3.
- ALASKA.** Report on the population, industries and resources of Alaska, by Ivan Petroff. In v.8.
- BUILDING STONES.** Report on the building stones of the United States, and statistics of the quarry industry for 1880. In v.10.
- CEREALS.** Report on the cereal production of the United States, by W. H. Brewer. In v.3, p.371-553.
- CHEMICALS.** Report on the manufacture of chemical products and salt, by W. L. Rowland. In v.2, p.985-1028.
- COAL.** Coals of the United States. In v.15, p.603-796.
- COKE.** Report on the manufacture of coke, by J. D. Weeks. In v.10.
- COTTON.** Report on the cotton manufacture of the United States, by Edward Atkinson. In v.2, p.937-957.
- Report on cotton production in the United States, by E. W. Hilgard. v.5-6.
- DEFECTIVE CLASSES.** Report on the defective, dependent and delinquent classes of the United States, by F. H. Wines. v.21.
- FACTORY SYSTEM.** Report on the factory system of the United States, by C. D. Wright. In v.2, p.527-610.
- FLOUR.** Report on flour-milling processes, by Knight Neftel. In v.3, p.555-582.
- FORESTS.** Report on the forests of North America (exclusive of Mexico), by C. S. Sargent. v.9 and portfolio of plates.
- GLASS.** Report on the manufacture of glass, by J. D. Weeks. In v.2, p.1029-1152.
- ICE industry of the United States,** by Henry Hall. In v.22.
- IRON.** Iron ores of the United States. In v.15, p.1-601.
- Statistics of the iron and steel production of the United States, compiled by J. M. Swank. In v.2, p.729-900.
- MACHINE TOOLS.** Report on machine tools and wood-working machinery, by F. R. Hutton. In v.22.
- MACHINERY.** Report on the manufacture of interchangeable mechanism, by C. H. Fitch. In v.2, p.611-704.
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- MANUFACTURES.** Report on the manufactures of the United States; general statistics and monographs. v.2.
- MARINE ENGINES.** Report on marine engines and steam vessels in the United States merchant service, by C. H. Fitch. In v.22.
- MEAT.** Report on cattle, sheep and swine; supplementary to enumeration of live stock on farms in 1880, by Clarence Gordon. In v.3, p.951-1116.
- MINING INDUSTRIES.** Report on the mining industries of the United States (exclusive of the precious metals), with special investigations into the iron resources of the republic, and as to the cretaceous coals of the Northwest, by Raphael Pumpelly. v.15.
- MINING LAWS.** United States mining laws and regulations, and state and territorial mining laws, with local mining rules and regulations. v.14.
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- PETROLEUM.** Report on the production, technology and uses of petroleum and its products, by S. F. Peckham. In v.10.
- POPULATION.** Statistics of the population of the United States. v.1.
- POWER.** Report on the statistics of steam- and water-power used in the manufacture of iron and steel during the year ending May 31, 1880, by Herman Hollerith. In v.22.
- Statistics of power used in manufactures, by Herman Hollerith. In v.2, p.487-525.
- PRECIOUS METALS.** Statistics and technology of the precious metals, by S. F. Emmons and G. F. Becker. v.13.
- PRICES.** Report on the average retail prices of the necessities of life in the United States, by J. D. Weeks. In v.20.
- PUMPS.** Report on steam pumps and pumping engines, by F. R. Hutton. In v.22.
- SEALS.** Report on the seal islands of Alaska, by H. W. Elliott. In v.8.
- SHIPBUILDING.** Report on the ship-building industry of the United States, by Henry Hall. In v.8.
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- TRADE UNIONS.** Report on trades societies in the United States, by J. D. Weeks. In v.20.
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- WATER-POWER.** Reports on the water-power of the United States; statistics of power and machinery employed in manufactures. v.16-17.
- WATER-SUPPLY.** Report on the water-supply of certain cities of the United States, by W. G. Elliot. In v.17, p.505-788.
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Abstract of the eleventh census, 1890. 1896.....r317.3 U25c11a

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v.1-2. Report on the social statistics of cities in the United States.—
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v.3. Vital statistics of Boston and Philadelphia, covering a period of 6 years ending May 31, 1890.

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ALASKA. Report on population and resources of Alaska, by R. P. Porter. v.10.

BLIND. Report on the insane, feeble-minded, deaf and dumb, and blind, by J. S. Billings. v.21.

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CHURCHES. Report on statistics of churches in the United States, by H. K. Carroll. v.7.

CLAY PRODUCTS. In v.16, p.505-541.

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GLASS, by J. D. Weeks. In v.16, p.311-340.

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- INDIANS. Report on Indians taxed and Indians not taxed in the United States (except Alaska). v.6.
- INSANE. Report on the insane, feeble-minded, deaf and dumb, and blind, by J. S. Billings. v.21.
- INSURANCE. Report on insurance business in the United States, by C. A. Jenney. v.4-5.
- IRON. Iron and steel manufacture, by W. M. Sweet.—Cast iron pipe industry.—Wrought iron and steel pipe.—Locomotives. In v.16, p.383-501.
- IRRIGATION. Report on agriculture by irrigation in the western part of the United States, by F. H. Newell. v.11.
- MANUFACTURES. Report on manufacturing industries in the United States. Pt.1. Totals for states and industries. Pt.2. Statistics of cities. Pt.3. Selected industries. v.14-16.
- MINERAL INDUSTRIES. Report on mineral industries in the United States, by D. T. Day. v.1.
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- PETROLEUM. Refining of petroleum, by J. D. Weeks. In v.16, p.359-373.
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ROUSSEAU, Jean Jacques.

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 v.4. *Same*, 54th congress, 2d session, July 1, 1896-June 30, 1897.
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 Legislative record; containing the debates and proceedings of the Pennsylvania legislature; ed. by George Bergner; daily, Jan. 7, 1862-Aug. 16, 1864. 3v. 1862-64.....qr328.74 P39l

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Manual for the government of the Senate and House of representatives of Pennsylvania; comp. by Jacob Ziegler.

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- BROOKS, Noah.
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 American voters' vade mecum; containing proceedings of the
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Proceedings of the 1st-12th Republican national conventions, 1856-1900. 1892-1903.....r329.6 R35
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SMITH, Theodore Clarke.

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Proceedings of the 10th national convention of the Socialist labor party, held in New York, June 2-8, 1900.
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330 Economics

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of his effort to write a small text book on political economy which should trace the rise and development of the science a century ago, and its abandonment, as he considers it, by its teachers of to-day, accompanying this by an account of the extension of the philosophy of the "natural order" as he calls the single tax.

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"Brings out the value of economics in discipline. Gives important hints to the teacher, minister, journalist, and lawyer. The ordinary student will find this manual of much directive service." *Bowker & Hies* "Reader's guide."

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Appendix contains extracts from 18 economic writers.

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- v.4. Transportation, including review of evidence, topical digest of evidence, and testimony so far as taken May 1, 1900.
- v.5. Labor legislation, including digests of the laws of the states and territories relating to labor generally, to convict labor, and to mine labor.
- v.6. Distribution of farm products.
- v.7. Relations and conditions of capital and labor employed in manufactures and general business, including testimony so far as taken Nov. 1, 1900, and digest of testimony.
- v.8. Chicago labor disputes of 1900, with especial reference to the disputes in the building and machinery trades.
- v.9. Transportation, including testimony taken since May 1, 1900, review and topical digest of evidence, and special reports, on railway legislation and taxation.
- v.10. Agriculture and agricultural labor, including testimony, with review and topical digest thereof.
- v.11. Agriculture and taxation, including reports relating to fictitious sales of farm products, the tobacco trade, American farm labor, laws regarding agricultural boards, warehouse and elevator laws, adulteration of food products and taxation systems.
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v.23. A tenement house census of Boston; section 2. Sanitary condition of tenements.—Section 3. Place of birth, occupations, etc. of residents in tenement houses.

v.24. Unemployment.

v.25. Compensation in certain occupations of graduates of colleges for women.—The distribution of wealth, probates.

v.26. Relation of the liquor traffic to pauperism, crime and insanity.—Graded weekly wages, 1810-1891, occupations A-C.

v.27. Social and industrial changes in the county of Barnstable. —Graded weekly wages, 1810-1891, occupations D-G.

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- SCHOENHOF, Jacob.
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"In the present work...it is our intention, not only to describe the experiment of compulsory insurance, but to consider all of the various methods by which workingmen make provision through common action for the time when they shall be incapacitated for work. The history of the insurance institutions and the present condition of the problem will be given for each country separately." *Preface.*

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CAMPBELL, Mrs Helen.

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and their lives. 1895..... 331.4 C15p

Prisoners of poverty abroad. 1890..... 331.4 C15pr

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HAUSSONVILLE, Gabriel Paul Othenin de Cleron, vicomte d'.

Salaires et misères de femmes. 1900 331.4 H35

ROBINSON, Mrs Harriet Jane (Hanson).

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tributors. 1898..... 331.4 R55

The story of the Lowell factories in the forties, when Lucy Larcom was one of the operatives.

"'Loom and spindle,' valuable as it is for its details of economic history, for the inspiration which comes from studying the lives and characters of noble women, teaches the lesson which the author and her associates taught,—that whatever is honest in employment is in the service of God." *Carroll D. Wright.*

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Annual report (1st-2d, 5th) of the chief, and reports of bureaus of the department, for the year 1891-[1892, 1895]. 1892-96.....r352 A422

The 2d report covers 14 months, Jan. 1, 1892 to Feb. 28, 1893. Subsequent reports are for the fiscal year ending Feb. 28, and are included in the Municipal reports, r352 A42.

BALTIMORE. Charter.

New charter of Baltimore city, [approved March 24, 1898; with report of the new charter commission]. 1898.....r352 B217

BALTIMORE—Mayor.

Mayor's message and reports of city officers, 1897-date.

1898-dater352 B21

BARNES, Lemuel Call.

Socialism and a municipal commonwealth. 1895.....r352 B25

From the American magazine of civics, v.6, p.260-266, 1895.

BELL, Sir James, & Paton, James.

Glasgow, its municipal organization and administration.

1896 q352 B41

Glasgow is considered one of the best-governed cities in the world. This is an exhaustive description of the manner in which the city government is administered, and is full of suggestion and instruction for those interested in better municipal government in the United States.

BEMIS, Edward Webster, ed.

Municipal monopolies. 1899. (Library of economics and

politics.)352 B42

Contents: Water-works, by M. N. Baker.—Municipal electric lighting, by J. R. Commons.—The latest electric light reports, by E. W. Bemis.—Validity of electric light comparisons, by F. A. C. Perrine.—The telephone, by Frank Parsons.—Municipal franchises in New York, by Max West.—Legal aspects of monopoly, by Frank Parsons.—Street

- railways, by E. W. Bemis.—Gas, by E. W. Bemis.—Regulation or ownership, by E. W. Bemis.
- BOSTON**—Mayor.
Address of Josiah Quincy, mayor of Boston, to the city council,
Jan. 4, 1897. 1897r352 B64
Mayor Quincy's executive address touches upon some suggestive features of municipal administration, including public baths, playgrounds, parks, etc.
- BREEN**, Matthew Patrick.
Thirty years of New York politics up-to-date. 1899.....352 B72
- CHALMERS**, Mackenzie Dalzell Edwin Stewart.
Local government. 1883. (English citizen series.).....352 C353
- CHAPMAN**, Sydney John.
Local government and state aid; an essay on the effect on local administration and finance, of the payment to local authorities of the proceeds of certain imperial taxes. 1899.
(Social science series.).....352 C36
- COLER**, Bird Sim.
Municipal government as illustrated by the charter, finances and public charities of New York. 1900.....352 C68
Contents: The city charter.—Public charity.—Charity regulated.—Income and expenses.—Water supply.—Transportation.—City development.—The church in politics.—Political machines.
- CONKLING**, Alfred Ronald.
City government in the United States. 1895.....352 C72
The same; with a chapter on the Greater New York charter of 1897. 1899352 C72c
List of authorities, p.15.
A comprehensive survey, with suggestions for reform, by an ex-alderman of New York. Describes functions of each department, points out defects and draws instructive comparisons with European cities.
- DEVLIN**, Thomas C.
Municipal reform in the United States. 1896. (Questions of the day.).....352 D49
- DISTRICT OF COLUMBIA**—Commissioners.
Annual report, 1874–date. 1874–date.....r352 D63
The reports for 1874–1878, 1881–1884 will be found in the sheep bound set of congressional documents, numbered respectively, 1641, 1682, 1751, 1802, 1852, 1913, 2021, 2103, 2193, 2290.
- DOLMAN**, Frederick.
Municipalities at work; municipal policy of six great English towns and its influence on their social welfare.
1895. (Social questions of to-day.).....352 D69
The towns are Birmingham, Manchester, Liverpool, Glasgow, Bradford, Leeds.
- DUNLOP**, James.
Treatise on the duties of county and township officers of Pennsylvania. pt.1. 1843.....r352 D92
pt.1. The duties of county commissioners, assessors and collectors of taxes, and the mode of assessing and collecting the taxes.
- EATON**, Dorman Bridgman.
The government of municipalities. 1899.....352 E19
- FAIRLIE**, John Archibald.
Municipal administration. 1901352 F16
Part 1 is an historical survey of cities and municipal government, treating briefly of ancient and mediæval cities and more at length of the development during the nineteenth century. Part 2 discusses the active

functions of municipal administration; part 3 deals with the problems of municipal finance; and part 4 with the various methods and problems of municipal organization, with special reference to recent tendencies and proposed reforms in American cities.

FIELDE, Adele Marion.

Political primer of New York state and city. 1897352 F45

Handbook explaining through questions and answers, the legislative, executive and judicial systems, political methods, rights and duties of citizens.

FOOTE, Allen Ripley.

Municipal public service industries. 1899.....352 F74

Contents: How should the franchise question be settled?—Powers of municipalities.—Cost of service to users and taxpayers.

FRANCISCO, M.J.

Municipal ownership vs. private corporations; with legal and editorial opinions, tables and costs of lights as furnished by private companies and municipal plants, with list of municipal plants that have been sold or abandoned; containing also a comparison of English and American gas and railway plants. 1898.....352 F87m

Municipalities vs. private corporations; political and business management compared. 1900.....352 F87

Opposed to municipal ownership.

GLADDEN, Washington.

Cosmopolis city club. 1893.....352 G45

First published in the Century magazine, v.23.

Discusses problems of municipal reform and outlines in story form practical beginnings by a few public spirited citizens.

GOMME, George Laurence.

London in the reign of Victoria, (1837-1897). 1898. (Victorian era series.).....352 G59

After an interesting brief account of the London of 1837 the author considers the trade and commerce, industries, growth in population, street architecture, parks, education, London local government, and taxation, and gives some statistical tables concerning occupations, food supplies, railways, etc.

GOODNOW, Frank Johnson.

Municipal home rule. 1895.....352 G62m

Municipal problems. 1897.....352 G62

GREEN, Mrs Alice Sophia Amelia (Stopford).

Town life in the 15th century. 2v. 1894.....352 G82

The author was closely associated with her husband, the late J. R. Green, the historian, in all his work and was familiar with the material he had accumulated for future labors. She considers the different features of domestic and social life, the labor question, crafts and guilds, town councils, and pays particular attention to the contrasted fortunes of towns upon the royal demesne, and those on baronial or church estates.

HARRISBURG LEAGUE FOR MUNICIPAL IMPROVEMENT.

Proposed municipal improvements for Harrisburg, Penn'a.; report of executive committee to the subscribers to fund for investigating municipal improvements, Nov. 21, 1901, embodying reports and recommendations of experts employed, including J. H. Fuertes, W. H. Manning and M. R. Sherrerd. 1901r352 H29

JAMES, Edmund Janes.

Municipal administration in Germany as seen in the govern-

ment of a typical Prussian city, Halle, a/S. 1901. (Chicago university. Studies in political science.).....352 J16

JENKS, Edward.

An outline of English local government. 1894. (University extension series.).....352 J25

LONDON manual for 1899-1900; ed. by Robert Donald; containing the full text of the London government bill and an explanation of the constitution, &c., of the new London boroughs. [1899.].....r352 L82

MEANS, David McGregor; (*pseud.* Henry Champernowne).

The boss; an essay upon the art of governing American cities. 1894352 M55

MINNEAPOLIS.

Annual reports of the city officers for the year 1894, 1898-1901. 1895-1901r352 M72

MUNICIPAL affairs; a quarterly magazine devoted to the consideration of city problems. v.1-date. 1897-date...r352 M96

MUNICIPAL year book of the United Kingdom for 1897, 1899-date; ed. by Robert Donald. 1897-date.....r352 M967

Describes what may be called the constructive rather than the administrative work of the cities and towns of the United Kingdom, especially the supplying of water, gas and electricity, the management of tramways, the erection of artisans' dwellings and municipal lodging houses. Contains directory of town councils.

NATIONAL CONFERENCE FOR GOOD CITY GOVERNMENT.

Proceedings of the conference (1st-date), Jan. 1894-date. 1894-dater352 N15

Proceedings of the 1st conference contain a Bibliography of municipal government and reform. Beginning with the proceedings of the 2d conference the Proceedings of the annual meeting of the National municipal league, are included.

Proceedings of the 4th conference contain a chapter on Municipal condition of Pittsburg, by G. W. Guthrie.

NATIONAL MUNICIPAL LEAGUE.

A municipal program; report of a committee, adopted by the league, Nov. 17, 1899, together with explanatory and other papers. 1900.....352 N15

Contents: Municipal development in the United States, by J. A. Fairlie.—Municipal problem in the United States, by H. E. Deming.—The city in the United States; the proper scope of its activities, by Albert Shaw.—The place of the council and of the mayor in the organization of municipal government, by F. J. Goodnow.—Public accounting under the proposed municipal program, by L. S. Rowe.—The power to incur indebtedness under the proposed municipal program, by B. S. Coler.—Municipal franchises, by Charles Richardson.—Political parties and city government under the proposed municipal program, by F. J. Goodnow.—Public opinion and city government under the proposed municipal program, by H. E. Deming.—A summary of the program, by L. S. Rowe.—Proposed constitutional amendments. — Proposed municipal corporations act.—An examination of the proposed municipal program, by D. F. Wilcox.

ODGERS, William Blake.

Local government. 1899. (English citizen series.).....352 O14

Based upon "Local government," written in 1883 by M. D. E. S. Chalmers (call number, 352 C353), but worked over to bring it to date (1899).

PARSONS, Frank.

The city for the people; or, The municipalization of the city government and of local franchises. 1900.....r352 P26

PHILADELPHIA—Mayor.

Fourth annual message, Edwin H. Fitler, mayor, with Annual report of the Department of public safety and Annual report of the Board of health for the year 1890. 1891r352 P49

PITTSBURGH—Controller.

Report of the city controller for the year ending Jan. 31, 1871—date. 1872—date.....r352 P67r
The report for the year ending Jan. 31, 1871 was the first to be printed separately. Before that date, beginning with 1858, the report will be found in the appendix to the yearly issue of the ordinances.

PITTSBURGH. Ordinances.

By-laws and ordinances of the city of Pittsburgh, and the acts of Assembly relating thereto; with notes and references to judicial decisions thereon, and an appendix, relating to several subjects connected with the laws and police of the city corporation. 1828.....r352 P67b

Ordinances passed by councils since the 25th day of August, 1828 [Dec. 3, 1828—Feb. 23, 1829].....r352 P67b

Ordinances passed by councils since the 23d day of February, 1829 [June 25, 1829—May 31, 1830].....r352 P67b

Ordinances passed by councils since the 31st day of May, 1830 [Aug. 2, 1830—May 27, 1833].....r352 P67b
The three supplements are bound with the volume printed in 1828.

Digest of ordinances of the city of Pittsburgh; to which is prefixed a collection of the acts of Assembly relating to the corporation. 1849.....r352 P67b4
Title-page, p.1-10, 127-129, 353, missing.

Ordinances passed by the select and common councils, Jan. 15, 1849—Dec. 31, 1869, with the financial reports of the city and reports of city officers for 1849-1869. [20v. in 3.] 1850-70.....r352 P67b5
Publication of the ordinances in this form was discontinued with the issue for 1869, as they appear in the Municipal record.
Title pages vary.

Digest of acts of Assembly, the codified ordinance of the city of Pittsburgh adopted Oct. 6, 1859, and a digest of other ordinances now in force; comp. by A. W. Foster. 1860.r352 P67b6

Digest of the acts of Assembly and a code of the ordinances of the city, with an appendix containing ordinances and references to acts and ordinances remaining in force; prepared by J. F. Slagle. 1869.....r352 P67b7

Digest of the acts of Assembly relating to, and the general ordinances of the city, from 1804 to Sept. 1, 1886, with references to decisions thereon; prepared by W. W. Thomson. 1887.....r352 P67b8

Same, from 1804 to Jan. 1, 1897, with reference to decisions thereon. 1897.....r352 P67b9

PITTSBURGH—Public safety department.

Annual report (1st-12th) of the chief, and reports of the

bureaus of the department, for the year ending Jan. 31,
1889-1900. 1889-1900.....r352 P674
Reports for 1900/01 and 1901/02 have not been printed.

SHAW, Albert.

Municipal government in continental Europe. 1895.....352 S53m

Contents: Paris, the typical modern city.—The French municipal system.—The systems of Belgium, Holland and Spain.—Recent progress of Italian cities.—The framework of German city government.—Municipal functions in Germany.—The free city of Hamburg and its sanitary reforms.—The transformation of Vienna.—Budapest, the rise of a new metropolis.—APPENDICES: The budget of Paris, The budget of Berlin, The French municipal code.

Municipal government in Great Britain. 1895.....352 S53

"Gives a good description of municipal government in Great Britain at the present time...Apart from its comparison of English with American conditions, and apart from the evident desire to apply the English system to American conditions, the book is deserving of great praise." *F. J. Goodnow in Political science quarterly*, 1895.

SHERMAN, Philemon Tecumseh.

Inside the machine; two years in the Board of aldermen, 1898-1899; a study of the legislative features of the city government of New York city under the Greater New York charter. 1901352 S55

The author, a son of General W. T. Sherman, was elected in 1897 on the Citizens' Union ticket to represent the "Tenderloin" district in the Board of aldermen. The unique surroundings and associations into which he was thus thrown appealed to his sense of humor, while the manifold evils of the municipal government system under the present charter invited his caustic analysis. This book is the result.

STALLARD, Joshua Harrison.

Problem of municipal government as illustrated by the municipal government of San Francisco. 1897r352 S78
Reprinted from the *Overland monthly*, Jan.-May, 1897.

STRONG, Josiah.

The twentieth century city. 1898.....352 S92

Contents: The materialism of modern civilization.—A nation of cities.—The materialistic city a menace to itself.—The materialistic city a menace to state and nation.—Remedies; the new patriotism; twentieth century Christianity; twentieth century churches; practical suggestions.

Dr Strong thinks the greatest peril of modern civilization is its materialism, and as the movement of population is towards the cities, it is in the cities of the twentieth century that this danger must be met.

TIEDEMAN, Christopher Gustavus.

Treatise on the law of municipal corporations in the United States. 1900.....r352 T44

WEBB, Sidney James.

The London programme. 1891. (Social science series.).....352 W36

"The London Programme' is...commonly understood as the name for the series of proposals for metropolitan reform which have been pressed forward by the London Radical members since the year 1888." The book describes the most important of these reforms in the administration of the city.

WHELEN, Frederick.

London government. 1898.....352 W59

WHITE, Arnold.

The problems of a great city. 1887.....352 W63

WILCOX, Delos Franklin.

The study of city government. 1897.....352 W71

List of authorities, p.245-248.

WISCONSIN UNIVERSITY.

- Mayor vs. council; should a system of municipal government concentrating all executive and administrative powers in the mayor, be adopted in cities of the United States? twenty-seventh annual joint debate [between the Athenæ and Philomathia societies]. 1897.....r352 S78
Bibliography, p.95-103.
Bound with Stallard's Problem of municipal government.

BIRMINGHAM, England.

- General and detailed financial statement for the year 1870—date. 1871—date.....qr352.1 B48
Until and including 1889 the year ends Dec. 31; the following issue covers 3 months only, Jan.—March 1890, after which time the fiscal year ends March 31.
Binder's title reads Blue book.

DURAND, Edward Dana.

- The finances of New York city. 1898.....352.1 D93
Part 1 is devoted to a history of the finances from early Dutch times (1652), through the era of the Tweed ring and the period of reconstruction. In part 2 is considered in detail the working of the present financial system, beginning with the charter of 1873. Financial statements of fact are based on official records.

352.2 Police

COSTELLO, Augustine E.

- History of the fire and police departments of Minneapolis; their origin, progress and development. 1890.....r352.2 C83

MANN, Henry, *ed.*

- Our police; a history of the Pittsburgh police force under town and city. 1889.....r352.2 M33

NEW YORK (state)—Lexow committee.

- Report and proceedings of the senate committee appointed to investigate the police department of the city of New York.
5v. 1895.....r352.2 N26
Called the Lexow committee from the name of the chairman.

STEAD, William Thomas.

- Satan's invisible world displayed. 1897.....352.2 S79
Claims to give the gist of the evidence taken before the Lexow committee, in 1894-95.

352.3 Fire department

ALLEGHENY, Pa.—Fire department.

- History of the Allegheny fire departmentqr352.3 A42

DAWSON, Charles T. *ed.*

- Our firemen; the history of the Pittsburgh fire department, [to 1889]. 1889.....r352.2 M33
Bound with Mann's Our police.

HILL, Charles Thaxter.

- Fighting a fire. 1897.....352.3 H55
Contents: Fighting a fire.—A school for firemen.—An alarm of fire by telegraph.—The risks of a fireman's life.—Peter Spots, fireman.—Floating fire-engines.—The fire patrol.
These chapters appeared in St. Nicholas, July 1896–Oct. 1897.
Describes the workings of the New York city fire department.
The same. 1897.....j352.3 H55

PITTSBURGH—Fire commission.

Annual report (1st-7th, 16th) of the Board of fire commissioners, May 5, 1870-Jan. 1, 1877, Jan. 1, 1886-Jan. 31, 1887. 1871-87.....r352.3 P6741

PITTSBURGH—Public safety department.

Annual reports of the Bureau of fire, Bureau of electricity, Firemen's disability board, and Board of fire escapes, for the year 1893-1894, 1896. 1894-97.....r352.3 P674
These reports may also be found in the Annual report of the Department of public safety.

352.4 Public health**NASHVILLE, Tenn.—Health board.**

Report (2d), for the year ending July 4, 1877. 1877.....r352.4 N14

PITTSBURGH—Health bureau.

Annual report for the year 1873, 1880-1-2-3-4-5-6, 1880-1887, 1888-1899. 1873-1900.....r352.4 P67a

No separate reports were issued from 1880 to 1886, but in 1886 a report was printed covering those years; there is a separate report for 1887, which was also issued with a reprint of the report, 1880-6, under a new title page, as 1880-1887.

Reports for the years 1900, 1901 and 1902 have not been printed.

Manual of laws, and rules and regulations relating to the public health, and the construction and inspection of plumbing and house drainage. 1895.....r352.4 P67

PITTSBURGH—Public safety department.

Code of laws and manual governing the Bureau of health, 1889. [1889.].....r352.4 P67c

352.5-352.7 Public works**ALLEGHENY, Pa.—Public works department.**

Report, April 6, 1891-Feb. 28, 1893. 2v. 1892-93.....r352.5 A42

CHICAGO—Public works department.

Mayor's annual message and the annual report (22d, 25th-26th) of the department, 1897, 1900-1901. 1898-1902...r352.5 C43

PITTSBURGH—Public works department.

Annual report of the department for the year 1889-1898, [Feb. 1, 1889-Jan. 31, 1899]. 1890-99.....r352.5 P67
Reports for the years 1900 and 1901 have not been printed.

BOSTON—Water commission.

Annual report (5th), for the year ending Jan. 31, 1900. 1900.r352.6 B64

MASSACHUSETTS—Metropolitan sewerage commission.

Annual report (8th, 10th), for the year ending Sept. 30, 1896, 1898. 1897-99.....r352.6 M455

Report upon a high-level gravity sewer for the relief of the Charles and Neponset river valleys; resolves of 1898, chapter 4. 1899.....r352.6 M455r

MASSACHUSETTS—Metropolitan water board.

Annual report (4th), 1898. 1899.....r352.6 M45

NEW YORK (city), MERCHANTS' ASSOCIATION.

Inquiry into the conditions relating to the water-supply of the city of New York. 1900.....r352.6 N26

PITTSBURGH—Board of examiners and hydraulic engineers.

Pittsburgh new waterworks; report [to city councils] of the Board of examiners and hydraulic engineers [E. S. Chesborough and Moses Lane] with estimates of cost of work, submitted March, 1871. 1871.....r352.6 P67

One of the 100 copies which contain the map entitled: "Pittsburgh new water works. 1871. Map of the city of Pittsburgh, showing proposed location of pumping works, reservoirs, force mains & distribution mains. Scale 4 inches equal one mile."

The Library contains also one of the copies issued without the map. This is bound with Roberts' Report on the new water works, r352.6 R53.

ROBERTS, William Milnor.

Report [to the finance committee] on the new water works of the city of Pittsburgh. Feb. 19, 1874. 1874. (Pittsburgh—Councils.).r352.6 R53

Report made in accordance with resolution of councils, passed Dec. 8, 1873: "That the Finance committee are hereby instructed...to employ a competent engineer...to measure and estimate all work done, and material furnished, and report to Councils, whether the same corresponds with the money expended."

BOSTON—Street department.

Annual report of the Street department for the year 1899, 1900. 1900.....r352.7 B64

NEW YORK (city)—Street cleaning department.

Report, 1900. 1900r352.7 N26
For Col. Waring's report of the work of the department, 1895-97, see 628.4 W220.

PITTSBURGH—Highways and sewers bureau.

Official hand book; compendium and historical sketch, Bureau of highways and sewers; ed. for the bureau by J. M. Kelly. 1898.....r352.7 P67

353 United States government

For Constitutional law and history of the United States, see 342.7

AUSTIN, Oscar Phelps.

Uncle Sam's secrets; a story of national affairs.....j353 A93
"Much interesting information about currency, the mint, railway postal service, foreign mail, banking and revenue systems, etc., conveyed in a stiff and unreal story."

BARTLETT, William H.

Facts I ought to know about the government of my country. 1894.....353 B27

"Reference books," p.157-158.

"Aim of the writer has been to prepare such a work as an American father might wish to place in the hands of his son, or an American teacher in the hands of his pupils, to serve as the basis of a complete knowledge of the facts and principles of the government of the United States." *Preface.*

BROOKS, Noah.

How the Republic is governed. 1895.....353 B77
Describes briefly the legislative, executive and judiciary systems of the United States, the official business methods, and regulation of rev-

- enues, coinage, pensions, suffrage, public lands, etc.
The same. 1897.....rj353 B77
- DAWES, Anna Laurens.
 How we are governed; an explanation of the constitution
 and government of the United States. 1896.....j353 D32
The same. 1896.....rj353 D32
- GILLET, Ransom H.
 Federal government; its officers and their duties. 1871.....353 G41
- JAMES, James Alton, & Sanford, A. H.
 Government in state and nation. 1902353 J16
 "Reference books," p.375-378.
- MASON, Edward Campbell.
 Veto power; its origin, development and function in the
 government of the United States, (1789-1889); ed. by
 A. B. Hart. 1891. (Harvard historical monographs)...353 M44
 Bibliography, p.219-221.
- MOWRY, William Augustus.
 Elements of civil government; local, state and national; a
 course for schools. 1898.....j353 M94
- PEYTON, Balie.
 Speech upon the resolution of Mr Wise, proposing a select
 committee of investigation of the executive departments,
 and Mr Pearce's amendment to the same; delivered in the
 House of representatives, Dec. 15, 1836. 1836.....r353 P47
- STRONG, Frank, & Schafer, Joseph.
 The government of the American people. 1901.....353 S92
Contents: Township and county government.—City government.—State
 government.—Origin of the national government.—The national gov-
 ernment.
- UNITED STATES—Covode committee.
 Covode investigation; report of the committee appointed
 to investigate charges that improper means had been
 used by President Buchanan to influence the action of
 Congress on the Lecompton bill, &c. 1860. (36th cong.
 1st sess. House. Doc. no.648.).....r353 U253
- UNITED STATES—Executive departments, Committee to
 investigate.
 Journal [and reports] of the select committee to investigate
 the executive departments. 1837.....r353 P47
 Bound with other pamphlets.
- UNITED STATES—President.
 Compilation of the messages and papers of the presidents,
 1789-1897, by J. D. Richardson. 10v. 1896-99.....r353 U25
 v.10 contains a full index, and gives historical synopses of topics in-
 dexed.
- Veto messages of the presidents from Washington to Cleve-
 land, with the action of Congress thereon; comp. by B. P.
 Poore. 1886. (49th cong. 2d sess. Senate. Mis. doc.
 no.53.).....r2451
- WHITNEY, Reuben M.
 Protest against the proceedings of the select committee of the
 House of representatives to investigate the executive
 departments, Jan. 25, 1837. 1837.....r353 P47
 Bound with Peyton's Speech upon the resolution of Mr Wise.

353.1 State department

MICHAEL, William Henry.

History of the Department of state of the United States; its formation and duties, together with biographies of its present officers and secretaries from the beginning. 1901.

(United States—State department.).....r353.1 M66

UNITED STATES—State department.

Register, 1887-1888, 1892, 1893, 1897. 1888-97.....r353.1 U25

353.2 Treasury department

MAYO, Robert.

Synopsis of the commercial and revenue system of the United States as developed by instructions and decisions of the Treasury department for the administration of the revenue laws, with supplement. 2v. 1847..qr353.2 M54
Title of the supplement reads, "Treasury department and its fiscal bureaus; their origin, organization and practical operations illustrated.

UNITED STATES—Comptroller of the treasury, Office of.

Decisions, [Oct. 1, 1894-date]. v.1-date. 1896-date.

(Treasury department.).....r353.2 U25

Digest of decisions of the Second comptroller of the treasury. v.4. 1899. (Treasury department.).....r353.2 U25d

The office of Second comptroller was abolished by act of July 31, 1894, and his duties transferred to the First comptroller who became Comptroller of the treasury.

UNITED STATES—Customs division.

Digest of decisions of the Treasury department and of the Board of U. S. general appraisers under tariff acts of 1883, 1890, 1894 and 1897, rendered during 1898-1900. 1901..r353.2 U253d

UNITED STATES—Treasury department.

Synopsis of the decisions of the department on the construction of the tariff, navigation, and other laws for 1880.

1881r353.2 U253s

353.3 Interior department

UNITED STATES—Abstracted Indian trust bonds committee.

Report of the select committee to inquire into and report the facts in relation to the fraudulent abstraction of certain bonds held by the government in trust for the Indian tribes from the Department of the interior. 1861.

(36th cong. 2d sess. House. Doc. no.78.).....r353.3 U253

UNITED STATES—Interior department.

Annual register, containing a list of the persons employed in the department, 1877, 1883. 1877-83.....r353.3 U25a

Annual report of the secretary of the interior, 1849-date.

1849-dater353.3 U25

pts.2-3 of the report for 1890 are wanting.

A part of the report for 1851 is bound with the report of the secretary of the navy for 1851, r353.7 U25.

The reports of the Geological survey (qr557.3 U25a), the commissioner

of education (r379.7 U25), the Department of labor (r331 U25an) and the Land office report (r336.1 U25de), which form part of this report are catalogued separately.

A list of the bureaus, &c., whose reports are made to the secretary of the interior and are, therefore, included in his report, will be found on p.146 of the Document check list, 1895. This is kept at the reference desk.

List of books, reports, documents and pamphlets, printed or published by this department from 1789 to 1881. 1882. (47th cong. 1st sess. Senate. Ex. doc. no. 182.).....r1991

353.4 Post-office department

DORSEY, John W. and others.

Proceedings in the trial of the case of the United States vs.

J. W. Dorsey, J. R. Miner and others for conspiracy. 3v.

1882r353.4 D74

Binder's title reads "Record of the star route trials."

NEWCOMB, Harry Turner.

Postal deficit; an examination of some of the legislative and

administrative aspects of a great state industry. 1900.....353.4 N26

UNITED STATES—Post-office and post-roads committee.

Report on the condition of the Post-office department, pre-

sented June 9th, 1834. 1834. (23d cong. 1st sess. Sen-

ate. Doc. no.422.).....r353.4 G94

Bound with other pamphlets.

UNITED STATES—Post-office department.

Annual report of the postmaster-general, 1837-1842, 1847-1849,

1851, 1853-date. 1848-date.....r353.4 U25a

Report for 1877 wanting.

Report for 1849 is bound with the report of the secretary of war for

1849, r353.6 U25.

Report for 1851 is bound with the report of the secretary of the navy for

1851, r353.7 U25.

Reports for 1837-42, 1853-54, 1856, 1859, 1862-63, 1865-67, 1869, 1872 and

1876 will be found in the sheep bound set of congressional documents, numbered respectively, 321, 344, 363, 375, 401, 418, 712, 778, 894, 1025, 1159, 1184, 1254, 1286, 1327, 1411, 1562 and 1748.

Official postal guide, Jan. 1895, Jan. 1897, Jan. 1899, Jan.

1901-date. 1895-date.....r353.4 U25

Postal laws and regulations of the United States. 1887. (50th

cong. 1st sess. House. Mis. doc. no.63.)r353.4 U25p2

The same. 1893. (52d cong. 2d sess. House. Mis. doc. no.

90.)r353.4 U25p

353.5 Judiciary department

CARSON, Hampton Lawrence.

Supreme court of the United States; its history and its cen-

tennial celebration, Feb. 4th, 1890. 2v. 1891.....qr353.5 C23

Published under the direction and authority of the Judiciary cen-

tennial committee of the New York state bar association.

The same; supplement. pt.1. 1892.....qr353.5 C23 v.3

pt.1. George Shiras, jr.

GARLAND, A.H.

Experience in the Supreme court of the United States;

with some reflections and suggestions as to that tri-

bunal. 1898.353.5 G18

UNITED STATES—Congress, 7th, 1st sess.

Debates in the Congress of the United States on the bill for repealing the law "for the more convenient organization of the courts of the United States," during the first session of the seventh congress, [Jan. 4–Mar. 3, 1802].

1802r353.5 U25

UNITED STATES—Justice, Department of.

Annual report of the attorney-general for the year 1870–date. 1870–date.....r353.5 U253a

Reports for years 1870–1873, 1875–1879, 1881–1883 will be found in sheep bound set of congressional documents, numbered respectively, 1454, 1510, 1545, 1606, 1686, 1751, 1802, 1852, 1913, 1986, 2103 and 2193.

Digest of the official opinions of the attorneys-general, comprising all of the published opinions contained in v.1–16 inclusive, and embracing the period from 1789 to 1881; prepared by A. J. Bentley. 1885.....r353.5 U253d

Official opinions of the attorneys-general of the United States, advising the president and the heads of departments in relation to their official duties, and expounding the constitution, treaties, and the public laws of the country. v.17–date. 1891–date.....r353.5 U253

Opinions of the attorneys-general giving construction to public laws not of a temporary character, 1789 to March 1, 1841. 1841. (26th cong. 2d sess. House. Ex. doc. no.123.).....r353.5 U253o

Register of the Department of justice and the judicial officers of the United States, corrected to Sept. 1, 1874. 1874.....r353.5 U253z

353.6 War department

GARDNER, Charles K. *comp.*

Dictionary of all officers who have been commissioned or appointed and served in the army of the United States, 1789–1853. 1853.....r353.6 G18

HEITMAN, Francis Bernard, *comp.*

Historical register of the officers of the Continental army. 1893.qr353.6 H42h

Historical register of the United States army from its organization, 1789 to 1889. 1890.....qr353.6 H42

LIEBER, Guido Norman.

Remarks on the army regulations and executive regulations in general. 1898.....r353.6 L69

POWELL, William Henry, *comp.*

List of officers of the army of the United States, from 1779 to 1900. 1900.....r353.6 P87

Embraces a register of all appointments by the president in the volunteer service during the Civil war, and of the volunteer officers in the service June 1, 1900.

Published by L. R. Hamersly & co., New York.

RODENBOUGH, Theophilus Francis, *comp.*

From everglade to cañon with the Second dragoons, (2d

- United States cavalry); an account of services in Florida, Mexico, Virginia, and the Indian country, 1836-1875. 1875.....r353.6 R58
- RODENBOUGH, Theophilus Francis, & Haskin, W.L. *ed.*
The army of the United States; historical sketches of staff and line, [1789-1895]. 1896.....r353.6 R58
- UNITED STATES—Adjutant-general's office.
Official army register, 1882-1883, 1896-date. 1882-date...r353.6 U250
Official register of officers of volunteers in the service of the United States, organized under the act of Mar. 2, 1899.
1900r353.6 U253a
- UNITED STATES—House—24th cong.
Resolutions, laws and ordinances relating to pay, half pay, and other promises made by Congress to the officers and soldiers of the Revolution; to the settlement of the accounts between the United States and the several states and to funding the Revolutionary debt. 1838.....r353.6 U253
Binder's title reads "Revolutionary claims."
- UNITED STATES—Judge-advocate-general.
Digest of opinions of the judge-advocates general of the army; originally compiled by W. Winthrop, revised ed. (including opinions to Jan. 1, 1901), by Charles McClure. 1901. (War department. Doc. no.137.)r353.6 U253a
- UNITED STATES—Surgeon-general's office.
Circular. no.5-7. 1866-67.....qr353.6 U2533
no.5. Report on epidemic cholera in the army of the United States, during the year 1866.
no.6. Reports on the extent and nature of the materials available for the preparation of a medical and surgical history of the Rebellion.
no.7. Report on amputations at the hip-joint in military surgery.
- Drill regulations and outlines of first aid, for the hospital corps, United States army. 1900.....r353.6 U25d
- UNITED STATES—War department.
Annual reports of the War department, 1837-1843, 1847-1849, 1851-date. 1838-date.....r353.6 U25
Before 1898 this report was called Annual report of the secretary of war. v.2,3 and, from 1875 to 1891, v.4 have been classified and catalogued separately, as follows: v.2, report of the chief of engineers (qr627 U253); v.3, report of the chief of ordnance (r623.4 U251), v.4, report of the chief signal officer (r551.5 U253).
Before 1875 the report of the chief of ordnance was included in v.1.
Before 1875 and since 1892 the report of the chief signal officer is also in v.1.
Reports for 1837-43, 1848, 1856, 1863 & 1874 will be found in the sheep bound set of congressional documents, numbered respectively, 321, 338, 363, 375, 401, 418, 537, 894, 1184, 1635.
- Medals of honor issued by the department up to and including Oct. 31, 1897; with the laws, orders and regulations relative to the medal, the ribbon to be worn with the medal and the knot to be worn in lieu of the medal.
1897qr353.6 U25m
- The military laws of the United States, prepared by George B. Davis. 1897.....r353.6 U25mi2
The same; appendix containing legislation subsequent to March 4, 1897, and including May 18, 1898. 1898...r353.6 U25mi3
The same. Ed.4. 1901.....r353.6 U25mi

353.7 Navy department

CALLAHAN, Edward William, *ed.*

List of officers of the navy of the United States and of the marine corps, from 1775 to 1900; compiled from official records. 1901r353.7 C13
Published by L. R. Hamersly & co., New York.

HAMERSLY, Lewis Randolph, *comp.*

Records of living officers of the U. S. navy and marine corps.
1902 qr353.7 H19

KELLEY, James Douglas Jerrold.

Our navy, its growth and achievements. 1897.....qr353.7 K16

MICHAEL, William Henry, *comp.*

United States laws relating to the navy, marine corps, etc.;
comp. from the revised statutes and subsequent acts of
June 17, 1898, with a digest of the decisions of the courts
and opinions of the attorneys-general. 1898.....r353.7 M66

UNITED STATES—Naval contracts and naval expenditures
committee.

Report, with testimony. (35th cong. 2d sess. House.
Doc. no.184.).....r353.7 U253

This committee was appointed to investigate the management of the
Brooklyn and Philadelphia navy yards, the purchase of anthracite
coal for the navy and the contracts made in 1857 and 1858 for live-
oak for the navy.

UNITED STATES—Navigation bureau. (Navy department.)

List and station of the commissioned and warrant officers
of the navy and of the marine corps, 1898-1903. 6v.
1898-1903.r353.7 U2534

UNITED STATES—Navy department.

Register of the commissioned and warrant officers of the navy
and of the marine corps, 1867, 1895-date. 1867-date....r353.7 U25r
Register for 1898-date is bound with the army register for the same year,
r353.6 U250.

Report of the secretary of the navy, 1837-1842, 1847-1849,
1851-date. 1837-date r353.7 U25

Reports for 1849 and 1852 are bound with the reports of the secretary of
war for the corresponding years, r353.6 U25.

Reports for 1837-42, 1848, 1853, 1859, 1866-67, 1869, 1871-72, 1876 will
be found in the sheep bound set of congressional documents, numbered
respectively, 321, 338, 363, 375, 401, 537, 712, 1025, 1286, 1327,
1411, 1507, 1562 and 1748.

353.9 State government

New York

NEW YORK (state)—Adjutant-general's office.

Annual report of the adjutant-general, for the year ending
Dec. 31, 1867. 3v. 1868.....r353.9 N26a
v.2-3. Register of officers commissioned in the volunteer regiments
from N. Y., 1861-1865.

New York in the Spanish-American war, 1898. 3v. 1900.. r353.9 N26
Being part of the Report of the adjutant-general for 1900.

ROBERTS, James A. *ed.*

New York in the Revolution as colony and state; records

discovered, arranged and classified in 1895-1898.

1898qr353.9 R53

Gives the names, rank and organization of the men furnished by New York during the Revolution. These are taken from the original muster and pay-rolls in the state archives, and show that New York furnished a much larger quota than she is generally credited with, previous lists taken from other than original sources being very incomplete.

Ohio

OHIO—State department.

Annual report of the secretary of state, including the statistical report to the General assembly for the year ending Nov. 15, 1872-1873, 1875, 1878-1879. 1873-80.r353.9 Or18a

Report for 1875 contains a list of members and officers of the several constitutional conventions and general assemblies, with abstract of votes for governor at each election since the organization of the state government.

Report for 1878 contains a list of Ohio territorial and state governors from 1788 to 1880, and senators and representatives in Congress from 1789 to 1881.

Pennsylvania

PENNSYLVANIA—Adjutant general.

Annual report, 1863-date. 1864-date.r353.9 P3996

The report for 1874 will be found in the Executive documents, 1874, r328.74 P39e.

The reports for 1867, 1872-1873 are wanting.

The report for 1866 contains rosters of field and staff of regiments and of officers of unattached companies and independent batteries.

PENNSYLVANIA—Attorney general.

Report, for the year ending Dec. 31, 1887-date. 1889-date.r353.9 P39a

PENNSYLVANIA—Electoral college.

Proceedings, Dec. 2, 1840. 1840.r353.9 N24

Bound with other pamphlets.

Another copy is bound with other pamphlets and marked, r974.8 B48.

The same, Dec. 4-5, 1844. 1844.r327 U2533

Bound with other pamphlets.

PENNSYLVANIA—Governor. (J. A. Beaver.)

Message to the General assembly, Jan. 1, 1889. 1889.r353.9 P39g

Contains the report of the secretary of the commonwealth, Jan. 18, 1887 to Dec. 19, 1888.

PENNSYLVANIA—House of representatives.

Report of the majority and minority of the select committee appointed to inquire into the charge of bribery preferred against Daniel M'Cook. 1846.r353.9 N24

Bound with other pamphlets.

PENNSYLVANIA—Internal affairs department.

Annual report of the secretary for the year ending Nov. 30, 1879-date; pt.1, Land office, boundary lines, state weather service; pt.2, Assessments and taxes. 1880-date.r353.9 P3998

Early reports include reports on the Land office and assessments only.

1896 is the last year for which the Weather bureau issued a report.

pt.3, Report of the Bureau of industrial statistics, is marked r331 P39.

pt.4 on Railroads, canals, &c. is marked r656 P399i.

pt.5, Report of inspectors of mines, is marked r622.33 P39m.

PENNSYLVANIA—Military department.

Annual report, for the year ending Dec. 1, 1864-1865. 2v.

1865-66.r353.9 P39

Contains Roster of commissions issued to officers of Pennsylvania volunteers, Dec. 1, 1863-Dec. 1, 1865, with date of rank.

PENNSYLVANIA—Public printing and binding, Office of superintendent of.

Annual report of the superintendent of public printing and binding for the year ending June 30, 1894-date. 1894-

dater353.9 P399

PENNSYLVANIA—Secretary of state.

Report, Jan. 18, 1887 to Dec. 19, 1888. (In Pennsylvania—Governor. (J. A. Beaver.) Message to the General assembly, Jan. 1, 1889, p.47-59.).....r353.9 P39g

The same, for the two years ending Nov. 30, 1890, 1898.

1890-98r353.9 P3994

Report for the period ending Nov. 30, 1890 covers 23 months only.

PENNSYLVANIA. Statutes.

Military code of Pennsylvania, printed for the use of the National guard of Pennsylvania. 1898.....r353.9 P3997

SHIMMELL, Lewis S.

Pennsylvania citizen. 1900.....353.9 S55

A complete history of the civil government of Pennsylvania, containing also the essentials of the national government. Specially adapted for use in grammar schools.

Rhode Island**SMITH, Joseph Jencks, comp.**

Civil and military list of Rhode Island, 1800-1850; a list of officers elected by the General assembly from 1800 to 1850, also officers in Revolutionary war, appointed by Continental congress, and in the regular army and navy, to 1850, including volunteer officers in War of 1812 and Mexican war, and officers in privateer service during colonial and Revolutionary wars, and the War of 1812. 1901qr353.9 S65

South Carolina**SOUTH CAROLINA—Legislature.**

Address of the minority of the Legislature to the people, explaining their reasons for accepting the report of the joint committee on federal relations, on the amendment of the constitutional oath of office; with accompanying documents. 1834.....r353.9 N24

Bound with other pamphlets.

Confederate States**CONFEDERATE STATES OF AMERICA—Justice, Department of.**

Report of the attorney general, [for the six months ending Nov. 1, 1864], with the report of the superintendent of

public printing [April 26-Oct. 26, 1864]. 1864.....r973.7 C55
Bound with other pamphlets.

354 Foreign state governments

- ALMANACH de Gotha, 1868, 1871-1872, 1875-1888, 1896-date.
105e, 108e-109e, 112e-125e, 133e année-date. 1867-date..r354 A44
- FORBES, Archibald.
The Black Watch; the record of an historic regiment.
1897354.42 F75
- FORD, Worthington Chauncey, *comp*
British officers serving in America, 1754-1774. 1894.....qr354.42 F76
Reprinted from the New-England historical and genealogical register,
1894.
British officers serving in the American revolution, 1774-1783.
1897qr354.42 F76b
A continuation of "British officers serving in America, 1754-1774."
- FORTESCUE, John William.
History of the British army [to 1870]. v.1-3. 1899-1902..354.42 F79
v.1-2. To the close of the Seven years' war.
v.3. From the close of the Seven years' war to the second Peace of
Paris, 1763-1793.
Contains many battle maps.
"He has dealt not merely with the story of its embodiment, arming,
equipment, and organization, but with the general history of all the
wars in which it has been engaged...We have not found a single
campaign of any importance on which Mr. Fortescue has not brought
new information and judicious criticism to bear." *Literature, (Eng.)*,
1899.
History of the 17th Lancers. 1895.....qr354.42 F79
- GRIFFITHS, Arthur George Frederick.
English army; its past history, present condition, and future
prospects354.42 G89
- MAURICE, Col. Frederick.
National defences. 1897. (English citizen series.).....354.42 M49
- NORWAY, Arthur Hamilton.
History of the post-office packet service. 1895.....354.42 N46
Account of that portion of the English navy engaged in the foreign
packet trade, from its beginning in 1688 to 1815, compiled mostly from
the official records of the Post-office service. Sketches the engage-
ments with American privateers during the War of 1812.
- POLITICIAN'S handbook; a review and digest of the state
papers, diplomatic correspondence, reports of royal com-
missions, select committees, treaties, consular reports,
&c.; ed. by H. Whates, session 1899-date. [v.1-date.]
1899-date.....r354.42 P76
- RICHARDS, Walter.
Her Majesty's army; a descriptive account of the various regi-
ments now comprising the Queen's forces, from their first
establishment. 3vqr354.42 R41
- COLDSTREAM, John Phillip.
Institutions of Austria. 1895.....354.43 C68
Brief summary of the history, government, law, religion, education, army
and navy, commerce and industry of Austria.
- ALMANACH royal, 1779.....r354.44 A44

BODLEY, John Edward Courtenay.

France. 2v. 1898.....354.44 B58

v.1. The revolution and modern France.—The constitution and the chief of the state.

v.2. Parliamentary system.—Political parties.

Each volume has its own index.

This work is the result of wide reading and study, of seven years' residence in many parts of France, of much converse with people of all ranks and parties, from such men as Renan, Taine and Clemenceau, to peasants and shopkeepers.

"A work which is the worthy outcome of well-spent years and which will take rank with Mr Bryce's 'America' and Sir Donald Mackenzie Wallace's 'Russia' among the few books which enable nations to understand nations." *The Times*, (London), 1898.

UNITED STATES—Insular commission.

Report of the United States insular commission to the secretary of war upon investigations made into the civil affairs of Porto Rico, with recommendations, June 9, 1899. 1899. (United States—Insular affairs division.)...r354.7 U25

DOUGLAS, James.

Canadian independence, annexation and British imperial federation. 1894. (Questions of the day.).....354.71 D75

355 Military science

For United States war department, see 353.6

For Military engineering, see 623

An ABSENT-MINDED war; some reflections on our reverses and the causes which have led to them, by a British

staff officer. 1900.....355 A16

Inspired by the Anglo-Boer war of 1899-1901. In large part a criticism of the methods of training English army officers.

ARCHIBALD, James Francis Jewell.

Blue shirt and khaki; a comparison. 1901.....355 A67

Contents: The new soldier and his equipment.—British and American recruits.—The common soldier in the field.—The officers.—American and British tactics.—Feeding the two armies.—The railroad in modern war.—Transportation of troops by sea.—The last days of the Boer capital.—The British in Pretoria.

By an American war correspondent who has been through both the Cuban and South African campaigns and who compares English and American army methods. Rook makes a powerful, if not altogether just, appeal to American national vanity.

The ARMIES of to-day. 1893.....355 A7a

Contents: The army of the United States, by Gen. Merritt.—The standing army of Great Britain, by Gen. Wolseley.—The German army, by Col. Exner.—The French army, by Gen. Lewal.—The Russian army, by a Russian general.—The Austro-Hungarian army, by Gen. von Kuhn.—The Italian army, by Goiran.—The Mexican army, by T. A. Janvier.—The military situation in Europe, by Col. Exner.

The same. 1893.....r355 A7a

ATTERIDGE, Andrew Hilliard.

Wars of the 'nineties; a history of the warfare of the last ten

years of the 19th century. 1899.....qr355 A88

Contents: The reconquest of the Soudan.—The Spanish-American war.—Chitral and the N. W. frontier campaign.—The Chino-Japanese war.—The Greco-Turkish war.—The Matabele wars.—The French conquest of Madagascar.—Recent campaigns in West Africa.—Civil wars in South America.—Campaigns in eastern and central Africa, 1890-1899.—

The second civil war in the Philippines.—Siam, the French on the Menam river.—Manipur and Thobal.—Note on the Shirkeleh expedition and the pursuit of the khalifa.

AUSTIN, Oscar Phelps.

Uncle Sam's soldiers; a story of the war with Spain.....j355 A93

Story based upon the experience of two boys verging upon manhood who served with the armies in Cuba, Puerto Rico, and the Philippines. Designed to give young readers information about modern military methods.

BALDOCK, Thomas Stanford.

Cromwell as a soldier. 1899. (Wolseley series.).....355 B19

"The aim...is to give a succinct account of Cromwell's life as a soldier, pointing out how his genius taught him to reject one after the other the principal military errors of his day, and how, under his guidance, a crude untrained militia developed in a few years into the most perfect regular army of that period." *Preface.*

BARRIE, George, *pub.*

Army and navy of the United States from the Revolution to the present day; a record of the formation, organization, and general equipment of the land and naval forces of the republic, ed. by William Walton, A. B. Gardiner and H. C. Taylor. 2v. 1889-95

qr355 B26

Has the official approval of the State, War and Navy departments. There are several hundred illustrations, many of them full-page and colored, illustrating every branch of the service at all periods. A supplement contains lists of officers and estimates of forces from the beginning of the Revolution through the Civil war.

BELL, Charles Perceval Lynden Lynden.

Primer of tactics, fortification, topography and military law.

1899355 B39

BIGELOW, John, *jr.*

Principles of strategy illustrated mainly from American campaigns. 1891.....qr355 B47

BLOCH, Ivan Stanislavovitch.

Future of war in its technical, economic and political relations; is war now impossible? 1899.....355 B55

Translation of the sixth volume of the original work. Author is a well-known political economist of Warsaw. He attempts to prove that there can never be another largely destructive international war.

"Aside from its optimistic theory, M. Bloch's book is valuable as a thoroughly intelligible compendium of information on the military and naval strength and the economic conditions of the great European States." *Independent*, 1899.

BLOOMFIELD, B. *comp.*

Quartermaster's guide; being a compilation from the army regulations and other sources. 1862.....r355 C74g

Author was quartermaster in the Confederate army.

Bound with other pamphlets.

BUCKHOLTZ, L. von, *comp.*

Tactics for officers of infantry, cavalry and artillery. 1861...r355 B85

BURNHAM, William Power.

Three roads to a commission in the United States army.

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CONFEDERATE STATES OF AMERICA—Adjutant and inspector general's office.

General orders from the Adjutant and inspector general's office, Confederate States army, for the year 1863.

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CONFEDERATE STATES OF AMERICA—War department.

Army regulations adopted for the use of the army of the Confederate States, in accordance with the late acts of Congress, [with] an act for the establishment and organization of the army, also [the] articles of war. 1861..r355 C74
The same, 1864. Ed.3. 1864.....r355 C74r
 Title page reads Regulations for the army.

Regulations for the army of the Confederate States and for the Quartermaster's department and Pay department. 1861.....r973.7 C74a
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Regulations for the Subsistence department. 1861.....r355 C74g
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Regulations of the Confederate States army for the Quartermaster's department including the pay branch thereof. 1864.....r355 C74g
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CONFEDERATE STATES OF AMERICA—War department—Department of Northern Virginia.

General orders, no.64, May 18, 1863.....r973.7 C74h
 Orders relating to findings of various courts martial.
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CONNELL, F.Norreys.

How soldiers fight; an attempt to depict for the popular understanding the waging of war and the soldier's share in it. 1899355 C75
 Popular and elementary, mainly addressed to the young volunteer. Describes old-time warfare, modern cavalry, artillery and infantry, and makes some prophecies concerning battle in the future.

DECLÉ, Lionel.

Trooper 3809, a private soldier of the third republic. 1899..355 D36
 Detailed account of the French army system from the actual experience of a cavalry trooper. The introduction describes the military organization. The author aims to show that the conditions which make possible a Dreyfus case, are owing to arbitrary, unjust and defective discipline.

FARROW, Edward S. *comp.*

Military encyclopedia; with supplement. 3v. 1895.....qr355 F25

FORSYTH, Gen. George Alexander.

Story of the soldier. 1900. (Story of the West series.).....355 F78

FURSE, George Armand.

Provisioning armies in the field. 1899.....355 F99

GOLTZ, Colmar, freiherr von der.

The conduct of war; a brief study of its most important principles and forms. 1896.....355 G59
 Refers to our Civil war in illustration of some of the points discussed.

HAMLEY, Sir Edward Bruce.

Operations of war explained and illustrated. 1889.....qr355 H21

HART, Reginald Clare.

Reflections on the art of war. 1897.....355 H31

HOENIG, Fritz August.

Inquiries into the tactics of the future, developed from modern military history; tr. fr. the German by Carl Reichmann.

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Letters on strategy; ed. by W. H. James. 2v. 1898. (Wolseley series.).....355 H68
v.1. The campaign of 1806, from the 8th to 14th Oct.—The campaign of 1859, from the 29th April to 4th June.—The campaign from the 1st to 8th Aug., 1870.
v.2. The campaign from the 23d Aug. to the 1st Sept., 1870.
- JERRAM, Charles S. *comp.*
Armies of the world. 1900.....r355 J28
"Gathers from official and other trustworthy documents the main facts as to the strength and organization of the military forces of the civilized nations, their cost, mode of recruitment, tactics and supply sources. The details of army structure and management are enlivened by comments upon the political and economic significance of war preparation." *Nation*, 1900.
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Armies of Europe. 1890.....r355 K38
"An admirably constructed volume, giving an accurate view of the armies of Europe, but so intensely German in tone as not to be quite fair to the French." *Athenaeum*, 1890.
Colored plates.
- LEE, J. K. *ed.*
Volunteer's hand book; containing an abridgement of Hardee's Infantry tactics. 1861.....r973.7 L52
Author was captain of 1st Virginia volunteers.
Bound with other pamphlets.
- LIEBE, Georg.
Der soldat in der deutschen vergangenheit, 15.-18. jahrhundert. 1899qr355 L68
"A series of 183 most interesting illustrations, all reproductions of early engravings and woodcuts...taken from...chronicles, beginning with 1482, and well authenticated...Here are early artillery and matchlocks, single combats and battle scenes, fortifications and sieges, fighters and camp followers, the plundering soldier and the plundered peasant, the soldier's sweetheart and his victim, the early surgeon and the executioner, also a bit of 'Wallenstein's camp'—together with curious old verse. An intelligent text connects the whole, which may serve as a companion to Gustav Freytag's 'Bilder aus der Vergangenheit.'" *Saturday review*, 1899.
- McCLELLAN, Gen. George Brinton.
The armies of Europe, comprising descriptions in detail of the military systems of England, France, Russia, Prussia, Austria and Sardinia, adapting their advantages to all arms of the United States. 1861.....r355 M13
Report of observations in Europe during the Crimean war.
- MAGUIRE, Thomas Miller.
Outlines of military geography. 1899.....355 M25
Contents: The importance of the study of military geography.—The leading principles of strategy and military geography.—Other strategical considerations.—Command of the sea.—The strategic importance of the Mediterranean.—The United Kingdom with regard to sea power.—The strategic relations of Europe with other continents.—Frontiers in their relation to military operations.—Fortification as related to military geography.—The principal routes of invasion and main lines of communication.—European defiles and roads.—Historic lines of invasion.—Influence of climate on military operations.
- MAURICE, Col. Frederick.
Balance of military power in Europe. 1888.....355 M49b

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 Bibliography, p.126-144.
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- MILES, Gen. Nelson Appleton.
 Military Europe; a narrative of personal observation and personal experience. 1898.....q355 M68
Contents: With the Turkish and Greek armies in time of war.—The military and naval glory of England as seen at the Queen's jubilee, June 1897.—Military manœuvres.
- NAPOLEON I, emperor of the French.
 Military maxims of Napoleon; tr. fr. the French by Sir G. C. D'Aguilar; with an introduction by the author of "An absent-minded war." 1901355 N12
 Rules concerning the conduct of a campaign and the tactics of the battlefield. The introduction applies the maxims to certain operations in the South African war.
- OMAN, Charles William Chadwick.
 A history of the art of war. v.2. 1898.....355 O24
 v.2. Middle ages, 4th to 14th century.
 "The present volume is intended to form the second of a series of four, in which I hope to give a general sketch of the history of the art of war from Greek and Roman times down to the beginning of the nineteenth century." *Preface.*
- PATTEN, George Washington, *comp.*
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its own line, as any historical work ever did.' (*Edinburgh review*.) It is however, a chronicle rather than a history, and while it describes events in minute detail, makes little attempt to show their relation to each other or to the current course of politics or diplomacy. . . . A more serious fault is due to the strong national bias which affects the whole work. The facts, although related with scrupulous accuracy, not infrequently, especially in the case of the American war, convey a false impression." *Dictionary of national biography*.

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Register, 1896. 1896.....qr369 S699

SONS OF THE AMERICAN REVOLUTION, Massachusetts.

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Revolutionary ancestors. 1899.....r369 S6997

SONS OF THE AMERICAN REVOLUTION, Missouri.

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Proceedings, 1889-1893; ed. by John Whitehead. 1893...r369 S6990

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Officers, committees and membership roll. 1901r369 S6996

SONS OF THE REVOLUTION.

Explanation of some of the differences between the society of Sons of the Revolution and the society of Sons of the

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SONS OF THE REVOLUTION, Colorado.

Register of members. 1900.....qr369 S6995

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"This is a volume which well deserves the careful attention of all who are engaged in teaching. It may be regarded as supplementary to the late Dean Stanley's life of the Headmaster of Rugby... Mr Findlay's object is to deal with him as a schoolmaster." *Saturday review*, 1897.

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Contents: On the detestability of schoolmasters.—On the limited power of education.—Of education and instruction.—On reading and writing.—On arithmetic.—Educational subjects.—Tommy's mind.—Some of Tommy's blunders.—What is stupidity?—A defence of Latin.—Greek and elementary science.—The place of Greek.—Entrance examinations.—The preparatory school.—An early preparatory school.—Education and parental control.—Eton and Clifton.—Educational questions in 125 B.C.—History, geography and English.—Educational authorities.—Secondary education.—The universities.—Considerations suggested by the voluntary school question.—Tommy's honesty.—Tommy's health.—Punishment.—Athletics.—Day school v. boarding school.—The foster parent again to the real parent.

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Great didactic; now first Englished by M. W. Keatinge.
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DEWEY, John.

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Education and the philosophical ideal. 1900.....370.1 D81
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Contents: L'éducation au point de vue sociologique. — L'éducation moderne.—L'éducation rationnelle.

FELKIN, Henry M. & Mrs Emmie.

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 A very valuable discussion of the fundamental principles of education, and an able and eloquent advocacy of the claims of literature to the chief place in the curriculum.

GUYAU, Marie Jean.

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 List of the German editions of Herbart's works, p.13-14.
 At the time these letters were written, Herbart was engaged as tutor to three boys of different age and capacity. His attention was gradually concentrated upon problems of education, and the germs of many of his later theories were formed during this period. The lectures are on: The basis of education; Outlines of the general science

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- McMURRY, Charles Alexander.
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- MONTAIGNE, Michel Eyquem de.
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 Lectures on the science and art of education, with other lec-
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Other lectures: Educational methods.—Principles of the science of edu-
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 science teaching.—Pestalozzi; the influence of his principles on ele-
 mentary education.—Froebel and the kindergarten system of education.
 Life of Joseph Payne, p.14-19.
 "The work of an able, enthusiastic teacher and a close student of edu-
 cation. Sets forth the principles of teaching as well as the art. Shows how Nature teaches and the defects of her method. States
 the essentials of good methods. Finds a basis for all method in the
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 development. A most stimulating book for the teacher." *Edward R.*
Shaw.
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 "On the culture of the observing powers of children," by E. A. You-
 mans.—The curriculum of modern education, and the respective claims
 of classics and science to be represented in it considered.—On the im-
 portance and necessity of improving our ordinary methods of school

- instruction.—On the past, present, and future of the College of preceptors.—Proposal for the endowment of a professorship of the science and art of education in connection with the College of preceptors.—A compendious exposition of Jacotot's system of education.
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- PLATO.
Education of the young in the Republic of Plato; tr. into English with notes and introduction, by Bernard Bosanquet. 1900.....370.I P68
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- RICHTER, Jean Paul Friedrich, (*pseud.* Jean Paul).
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Psychology in education. 1895.....370.I R53
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Philosophy of education. 1893. (International education series.)370.I R72
The author was for many years professor of philosophy at Königsberg, and wrote extensively on philosophy and literature. This work, which on its appearance made an epoch in the treatment of educational theory in Germany, was originally translated for the Journal of speculative philosophy, but in this edition has been so revised as to adapt it to the needs of readers not trained in philosophy. After discussing the general idea of education, including its nature, forms and limits; he considers physical and intellectual education, and the training of the will, while under "education in its particular systems" he takes up the national, theocratic and humanitarian or Christian systems.
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Fletcher. 1892.....r370.3 S69

Bibliography, p.529-562.

370.4 Essays

ASPECTS of modern study; university extension addresses.

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Contents: The evolution of university extension as a part of popular education, by Lord Playfair.—The future of university extension in London, by Canon Browne.—Hearing, reading and thinking, by G. J. Goschen.—The study of literature, by John Morley.—Scientific study, by Sir James Paget.—Some lessons of antiquity, by Max Müller.—The application of the historical method to economic science, by the duke of Argyll.—Ideals, by Dr Westcott.—The influence of the Greek mind on modern life, by Prof. Jebb.

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Contents: Fathers, mothers and freshmen.—Some old-fashioned doubts about new-fashioned education.—College honor.—Some aspects of grammar-school training.—The transition from school to college. The first four of these essays appeared in the Atlantic monthly.

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Other essays: What knowledge is of most worth?—Is there a new education?—Democracy and education.—The American college and the American university.—The function of the secondary school.—The reform of secondary education in the United States.

DUTTON, Samuel Train.

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ELIOT, Charles William.

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Educational aims and methods. 1900.....370.4 F55

Contents: Methods of instruction as illustrated in the Bible.—Socrates and his methods of teaching.—Evolution of character.—Training of the reason.—Hand work and head work.—Endowments and their influence on education.—Ascham and the schools of the renaissance.—Teachers' institutes and conventions in America.—Edward Thring.—The university extension movement, and its relation to schools.—Joseph Lancaster.—Pestalozzi.—The Sunday school of the future.—Women and universities.—The French leaving certificate.

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Education and the larger life. 1902 370.4 H44
Contents: The point of view.—The social purpose.—The source of power.—Organic education.—Cause and effect.—Childhood.—Youth.—Holidays.—At the university.—The experimental life.—The agents of the social purpose.
Criticism of existing educational conditions and suggestions toward a better order. Mr Henderson strongly favors kindergartens, manual training schools, small classes, experimental and laboratory methods in teaching.
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- HUXLEY, Thomas Henry.
Science and education. 1894. 370.4 H98
Contents: Joseph Priestley.—Educational value of the natural history sciences.—Emancipation, black and white.—A liberal education, and where to find it.—Scientific education.—Science and culture.—Science and art in relation to education.—Universities, actual and ideal.—Address on university education.—Study of biology.—Elementary instruction in physiology.—Medical education.—The state and the medical profession.—Connection of the biological sciences with medicine.—School boards.—Technical education.—Address on behalf of the National association for the promotion of technical education.
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- JORDAN, David Starr.
Care and culture of men; addresses on higher education.
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- LOCKE, John.
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Contents: Should American youth be educated abroad?—Legal prevention of illiteracy.—Culture and knowledge.—The professional study.—Study and health.—Labor as an educator.—Education and industrial arts.—Education and invention.—Labor and capital theoretically harmonized.—Labor and capital practically harmonized.
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Seventeen essays on educational topics.
- QUICK, Robert Herbert.
Essays on educational reformers. 1892. (International edu-

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Contents: Effects of the renaissance.—Renaissance tendencies.—Sturmium.
 —Schools of the Jesuits.—Rabelais.—Montaigne.—Ascham.—Mulcaster.
 —Ratichius.—Comenius.—The gentlemen of Port-Royal.—Some English
 writers before Locke.—Locke.—Rousseau.—Basedow and the Philan-
 thropinum.—Pestalozzi.—Froebel.—Jacotot, a methodizer. — Herbert
 Spencer.—Thoughts and suggestions.—The schoolmaster's moral and
 religious influence.
- ROOPER, Thomas Godolphin.
 School and home life; essays and lectures on current educa-
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 Walks and talks. 1893.370.4 S66
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- EDUCATIONAL review; monthly. v.1–date. 1891–date.r370.5 E299
- JOURNAL of education; weekly. v.43–date. 1896–date.qr370.5 J46
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- PEDAGOGICAL seminary; an international record of educa-
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- The SCHOOL journal; weekly. v.52-date. 1896-date.....qr370.5 S37

370.6 Associations

ASSOCIATION OF COLLEGES AND PREPARATORY SCHOOLS IN THE MIDDLE STATES AND MARYLAND.

- Proceedings of the annual convention (1st-date), 1893-date. 1894-date.....r370.6 C69
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ASSOCIATION OF COLLEGIATE ALUMNÆ.

- Publications. 2d ser. no.61; 3d ser. no.1-date. 1897-date....qr370.6 A84
2d ser. no.61 is entitled Contributions towards a bibliography of the higher education of women.
3d ser. no.3 has supplement Register of the Association of collegiate alumne, 1899-1900; with constitution and by-laws; no.5 has similar supplement for 1901-1902.

CHICAGO—Educational commission, 1898.

- Report submitting recommendations in regard to the administration of the public school system of Chicago.
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COLLEGE ASSOCIATION OF PENNSYLVANIA.

- Proceedings of the convention (1st-2d), 1887-1888. 1887-88.....r370.6 C69 v.1
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COLLEGE ASSOCIATION OF THE MIDDLE STATES AND MARYLAND.

- Proceedings of the annual convention (1st-4th), 1889-1892. 1890-92.....r370.6 C69 v.2
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ENGLAND—Secondary education commission, 1894.

- Report of the commissioners. ov. 1895.....r370.6 E64
Commission was appointed to consider the best methods of establishing a well organized system of secondary education in England. The report contains an historical statement as to previous legislation, a description of the state of things actually existing, an analysis of the evidence submitted to the commission, and recommendations submitted by them.

NATIONAL EDUCATIONAL ASSOCIATION.

- Addresses and journal of proceedings. 1873-date.....r370.6 N15
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v.2. Isolation and unification, by E. E. White.—The culture-epochs, by H. T. Luken and others.—Literature in the high school, by J. R. Colby.—Training for citizenship, by J. W. Jenks.

v.3. Moral education, by John Dewey and others.—Training for citizenship, by E. J. James and others.—Observation and apperception, by Arnold Tompkins.—The application of the principles of Herbart to secondary schools, by Otto Frick and Dr Friedel.

v.4. Knowledge, will and conduct, by James Seth.—Social function of United States history, by J. B. McMaster and others.—Social function of geography, by Spencer Trotter and W. M. Davis.—A course of study in geography for the common schools, by C. A. McMurry.

v.5. Significance of the frontier in American history, by F. J. Turner.—Medieval and modern history in the high school, by J. H. Robinson.—The social aim in education, by I. W. Howerth.—Commercial education, by C. A. Herrick.

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NATIONAL SOCIETY FOR THE SCIENTIFIC STUDY OF EDUCATION.

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NATIONAL TEACHERS' ASSOCIATION.

Proceedings and lectures of the annual meeting (6th-7th,

9th), 1865-1866, 1869. 1865-69.....r370.6 N155

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370.7 Normal schools

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The training of teachers in the United States. 1894.....370.7 B69

Reports on a tour of investigation made by two English teachers to this country during the summer of 1893, for the purpose of studying the provisions made in the United States for the training of teachers.

WEST CHESTER STATE NORMAL SCHOOL.

Quarto-centennial history, 1871-1896. 1896.....r370.7 W56

UNITED STATES—Education bureau.

Educational exhibits and conventions at the World's industrial and cotton centennial exposition, New Orleans, 1884-

85. 3v. in 1. 1886. (Special report.)r370.8 U25ed

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370.9 History of education

BALFOUR, Graham.

Educational systems of Great Britain and Ireland. 1898...370.9 B19

BOONE, Richard Gause.

Education in the United States, its history from the earliest settlements. 1894. (International education series.)...370.9 B63
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A brief history of the schools and colleges of colonial and Revolutionary times is followed by a consideration of school funds, school supervision, the training of teachers, recent colleges, professional and technical schools and the present provision for the education of the unfortunate and criminal classes. Part IV considers some current educational interests. This is practically the first history of education in the United States.

BROWNING, Oscar.

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Introduction to the history of educational theories.

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BUTLER, Nicholas Murray, *ed.*

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1900. 2v. 1900.....370.9 B97

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v.1. Educational organization and administration, by A. S. Draper.—Kindergarten education, by S. E. Blow.—Elementary education, by W. T. Harris.—Secondary education, by E. E. Brown.—The American college, by A. F. West.—The American university, by E. D. Perry.—Education of women, by M. C. Thomas.—Training of teachers, by B. A. Hinsdale.—School architecture and hygiene, by G. B. Morrison.

v.2. Professional education, by J. K. Parsons.—Scientific, technical and engineering education, by T. C. Mendenhall.—Agricultural education, by C. W. Dabney.—Commercial education, by E. J. James.—Art and industrial education, by I. E. Clarke.—Education of defectives, by E. E. Allen.—Summer schools and university extension, by H. B. Adams.—Scientific societies and associations, by J. McK. Cattell.—Education of the negro, by B. T. Washington.—Education of the Indian, by W. N. Hailmann.

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CAPES, William Wolfe.

University life in ancient Athens; being the substance of four

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COMPAYRÉ, Gabriel.

History of pedagogy. 1885.....370.9 C73

Select list of works, p.573-575.

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Aristotle and ancient educational ideals. 1897. (Great educators.)370.9 D29a

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The author says his purpose is "to show how the Greek people were gradually educated up to that stage of culture which made them teachers of the whole world, and what the effect of that teaching has been. Hence education, in its narrow, pedagogic sense, is presented but in the barest outline, while prominence is given to the different stages in the growth of the Greek political, ethical, and religious consciousness."

- History of education. 1900.....370.9 D29h
Contents: Savage, barbarian and civic education; The rise of intelligence.—Savage education.—Barbarian education.—Civic education.—Human education; Supernatural beginnings of humanism.—Mediæval education.—Modern education.
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- EDGAR, John.
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- HAILMANN, William Nicholas.
 Twelve lectures on the history of pedagogy. 1874.....370.9 H14
- LANG, Ossian Herbert.
 Great teachers of four centuries; an outline history of the great movements and masters of the past four hundred years, that have shaped the theory and practice of the education of the present. 1893.....370.9 L23
 An exceedingly brief handbook intended for busy teachers.
- LEACH, Arthur Francis.
 English schools at the reformation, 1546-8. 1896.....370.9 L44
- MAHAFFY, John Pentland.
 Old Greek education.....370.9 M25
- MARK, H. Thiselton.
 Outline of the history of educational theories in England.
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List of books, p.136.
 Attempts to trace the development of a distinctly English educational theory from its origin in the 12th century.
- MONROE, Will Seymour.
 Comenius and the beginnings of educational reform. 1900.
 (Great educators.).....370.9 M83
 Annotated bibliography of the writings of Comenius, p.173-176, and of biographical and critical works, p.177-180.
 "Effort to trace the reform movement in education from Vives, Bacon, and Ratke to Comenius, who gave the movement its most significant force and direction; and from him to the later reformers,—Franccke, Rousseau, Basedow, Pestalozzi, Fröbel, and Herbart." *Preface.*
- MUNROE, James Phinney.
 The educational ideal; an outline of its growth in modern times. 1896.....370.9 M96
Contents: Rabelais; the revolt against mediævalism.—Francis Bacon; the revolt against classicism.—Comenius; the revolt against feudalism.—Montaigne and Locke; the child has senses to be trained.—The Jansenists and Fénelon; the child has a heart to be developed.—Rousseau; the child has a soul to be kept pure.—Pestalozzi and Froebel; senses, heart and soul must be educated together.—Women in education; education leads to and from the family, the home is its unit.
 Bibliography, p.233-247.
 The author has traced the steps through which the educational ideal has expanded "from the narrow pedantry of the schoolmen into an ever broader understanding of the true function of teaching."
- PAINTER, Franklin Verzelius Newton.
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 A graphic but brief account of educational movements and reformers from early times down to the present.
- PAYNE, Joseph.
 Lectures on the history of education; with A visit to German schools. 1892370.9 P33
 Thirteen lectures on leading educators, of which ten deal with European writers since the revival of learning.

SEELEY, Levi.

History of education. 1899 370.9 S45

Bibliography, p.315-324.

Intended for a short text-book in normal schools or in preparing for any teachers' examination. The special plan of the book includes a study of the history and environment, of the internal, social, political and religious conditions of the people as necessary to any proper conception of their education.

SWETT, John.

American public schools; history and pedagogics. 1900.....370.9 S97

WICKERSHAM, James Pyle.

History of education in Pennsylvania from the time the

Swedes settled on the Delaware to the present day.

1886r370.9 W67

WILLIAMS, Samuel Gardner.

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371 Teaching. Methods

ALLEN, Jerome.

Mind studies for young teachers. 1887.....371 A42

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Art of school management. 1892.....371 B19

Psychology applied to the art of teaching. 1897. (International education series.).....371 B19p

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Common sense in education and teaching; an introduction to practice. 1899371 B25c

Contents: Instruction as discipline.—Discipline of character.—Physical basis of education.—Genesis of curricula.—Manipulation of curricula.—Audible speech.—Literature and formal linguistic study.—Latin and Greek.—Mathematics and physical science.—Geography and history.—Warnings from history.—Making of the teacher.

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DE BRATH, Stanley, & Beatty, F.

Over-pressure. 1899371 D35

Contents: The nervous system.—Nervous energy.—Mental economics.

—Science teaching; what and how?—History teaching.—A high standard.—Without overstrain.—The great examination question.

DE GARMO, Charles.

Essentials of method; a discussion of the essential form of right methods in teaching; observation, generalization, application. 1898.....371 D38e
A clear exposition of educational method, based on Herbartian principles.

DODD, Catherine I.

Introduction to the Herbartian principles of teaching. 1898...371 D66
Bibliography, p.197-198.

FITCH, Sir Joshua Girling.

Lectures on teaching. 1893.....371 F55
"Not a manual of methods, but a book filled with practical comment and suggestion, written in a very pleasing style. One of the first books the novice in teaching should read. The chapters on discipline and the teacher and his attitude towards his vocation are notably strong and wholesome—sounding the note that true character is what will influence character." *Edward R. Shaw.*

FRYE, Alexis Everett.

Isla de Cuba; manual para maestros. 1900.....371 F97
Suggestions, in Spanish, to Cuban teachers who may work under the decree taking effect December 6, 1899. Mr Frye is the superintendent of schools of Cuba, (1900).

GRASBY, W. Catton.

Teaching in three continents. 1895.....371 G79

GREENWOOD, James Mickleborough.

Principles of education practically applied. 1899.....371 G85
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HERBART, Johann Friedrich.

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1896. (International education series.).....371 H45
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HEWETT, Edwin Crawford.

Treatise on pedagogy, for young teachers. 1884.....371 H49

HINSDALE, Burke Aaron.

Art of study; a manual for teachers and students of the science and the art of teaching. 1900.....371 H57
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Author is (1900) professor of the science and art of teaching in the University of Michigan and author of various educational works.

HOPKINS, Mrs Louisa Parsons (Stone).

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Author was a practical teacher, and at one time one of the supervisors of the Boston public schools. The book contains accounts of actual work with a class of children.

HOWLAND, George.

Practical hints for the teachers of public schools. 1896. (International education series.).....371 H86

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- "A serviceable and careful presentation of the subject." *Dial*, 1897.
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 LANDON, Joseph.
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 Biographical sketch of Page, p.11-18.
 PARKER, Francis Wayland.
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 Talks on teaching. 1896.....371 P23te
 Biographical introduction, by L. E. Patridge, p.5-11.
 PESTALOZZI, Johann Heinrich.
 How Gertrude teaches her children; an attempt to help mothers to teach their own children. 1898.....371 P45h
 Leonard and Gertrude. 1892.....371 P45
 REIN, Wilhelm.
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 ROSMINI-SERBATI, Antonio.
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 A fragment only of a work planned by the author in which the education of the human being was to be carried on through all the stages of life on the principle of natural development, here applied only to the education of children. The work was begun in 1839, and in its application the principle is almost identical with Fröbel's kindergarten system which was developed about the same time although the two men worked entirely independently.
 SALMON, David.
 The art of teaching. 1898.....371 S17

SCHAEFFER, Nathan C.

Thinking and learning to think. 1900.....371 S29

SEARCH, Preston Willis.

An ideal school; or, Looking forward. 1901. (International education series.).....371 S43

The author has had a long and varied career as teacher and superintendent of schools, and he here presents the opinions to which his experiences have led regarding school buildings, the scope of schools, course of study, the function of teachers, municipal difficulties, and the ethical basis.

THRING, Edward.

Theory and practice of teaching. 1894.....371 T42

As headmaster of Uppingham (Eng.) school, Edward Thring was one of the foremost pioneers in the modern methods of education. In this book, as in his work there, the object toward which he directs every effort is "education" as distinguished from instruction. In his whole consideration of the subject he insists most strongly that what is most important is not to gain knowledge, but to develop the power of the learner, and interest in the thing learned, and to teach mental independence and self reliance.

TOMPKINS, Arnold.

Philosophy of school management. 1895.....371 T59

Philosophy of teaching. 1898.....371 T59p

WHITE, Emerson Eldridge.

Elements of pedagogy; a manual for teachers. 1886.....371 W63

WICKERSHAM, James Pyle.

Methods of instruction. 1865.....371 W67m

School economy; a treatise on the preparation, organization, employments, government and authorities of schools.

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HERBERT, Auberon, *ed.*

Sacrifice of education to examination. 1889.....371.2 H46

- ABER, Mary Rose Alling-

An experiment in education, also the ideas which inspired

it and were inspired by it. 1897.....371.3 A14

An account of an experiment in primary education, first tried in connection with Mrs Quincy Shaw's private school in Boston.

AIKEN, Catharine.

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JOYCE, Patrick Weston.

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MANN, Charles W.

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Many of the most eminent German psychologists owe very much to impulses received from Herbart, neglected though his principles are."

G. Stanley Hall.

HAM, Charles Herbert.

Manual training the solution of social and industrial problems. 1886.....371.4 H22

- KENYON, Walter J.**
First years in handicraft. 1901.....j371.4 K19
- KILBON, George B.**
Knife work in the school-room. 1891.....j371.4 K25
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- PATRIDGE, Lelia Ellen.**
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- PINLOCHE, A.**
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- TADD, James Liberty.**
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The same. 1899.....qr371.4 T12
- WAKE, Richard.**
"The new education;" manual training, woodwork. 1899..371.4 W14
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- WOODWARD, Calvin Milton.**
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- BURRAGE, Severance, & Bailey, H.T.**
School sanitation and decoration; a practical study of health and beauty in their relations to the public schools. 1899371.6 B94
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371.7 School hygiene

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School gymnastics. 1896.....371.7 B22

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ASSOCIATION.

- Six lectures upon school hygiene. 1886.....371.7 M45
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ventilation.—Williams, C. H. The use and care of the eyes, especially
during school years.—Shattuck, G. B. Epidemics and disinfection.—
Wells, Frank. Drainage.—Folsom, C. F. The relation of our public
schools to the disorders of the nervous system.

NEWSHOLME, Arthur.

- School hygiene; or, The laws of health in relation to school
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SHAW, Edward Richard.

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Bibliography, p.253-255.
A concise, plainly-written statement of the essentials of the subject.
Treats of the design, warming, ventilating and furniture of school
buildings, postures and exercises of the pupils, handwriting, etc.

SNELL, Simeon.

- Eyesight and school life. 1895.....371.7 S67

STONEROAD, Rebecca.

- Gymnastic stories and plays for primary schools; physical
exercises for the first two years of school. 1898.....371.7 S88

WARNER, Francis.

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BAIRD, William Raimond.

- Fraternity studies; a manual of information concerning the
fraternity of Beta Theta Pi. 1894.....371.8 B16

PLINIUS, der jüngste, *pseud.*

- Naturgeschichte des deutschen studenten. 1842.....371.8 P69

371.9 Education of special classes

HOW to learn and earn; or, Half hours in some helpful schools.

- 1884j371.9 H84

Contents: Cadet life at West Point, by Mrs C. W. Raymond.—Perkins
institution and Massachusetts school for the blind, by E. E. Brown.—
Boston whittling schools, by E. E. Brown.—Philadelphia school of
reform, by Mrs Mary Wager-Fisher.—Among some sewing schools,
by E. E. Brown, Velma Wright, Mrs John Lillie.—Boston Chinese
mission school, by A. B. Harris.—Flower school at Corlear's Hook,
by Mrs E. E. Dickinson.—Lady Betty's cooking school, by Mrs John
Lillie.—The bad boys of France, by Mrs E. F. Pratt.—The children's
hour; a novel art school, by F. E. Fryatt.—At a day nursery, by A.
B. Harris.—Some Indian schools, by Mrs T. R. Jenness.—Training
school-ship Minnesota, by Mrs E. E. Dickinson.—Carlisle school for
Indian pupils, by Margaret Sidney.—The blind children's kindergarten,

- by Emilie Poulsson.—My Arizona class, by Mrs J. B. Frémont.
Some of these papers were published in the *Wide awake*.
- SHUTTLEWORTH, George Edward.
Mentally-deficient children; their treatment and training.
1900371.9 S56
- THRASHER, Max Bennett.
Tuskegee; its story and its work. 1900.....371.9 T42
Account of the growth, the methods and work of Tuskegee normal and industrial institute for colored students in Alabama, and a sketch of Mr Booker T. Washington, its principal.
"The praise of Mr. Washington is extremely warm, but no warmer than is just...Benjamin Franklin's arrival in Philadelphia was not more interesting than his in Richmond, without a cent in his pocket, and afterward at the Hampton school where he was not regarded as a promising addition." *Nation*, 1900.
- TUCKWELL, Gertrude M.
State and its children. 1894. (Social questions of to-day.)...371.9 T81
- WASHINGTON, Booker Taliaferro.
Black-belt diamonds; gems from speeches, addresses and talks to students. 1898.....371.9 W27

372 Elementary education

- ALDRICH, Mrs Aurette Roys.
Children, their models and critics. 1893.....372 A36
- ARNOLD, Matthew.
Reports on elementary schools, 1852-1882; ed. by Sir Francis Sandford. 1889.....372.9 A75
- ARNOLD, Sarah Louise.
Waymarks for teachers, showing aims, principles and plans of every day teaching. 1896.....372 A75
Contents: Nature study.—Language lessons.—Reading.—Spelling.—Geography.—Number.—Seat-work.—Talks on school subjects.
Each of the eight chapters discusses the plan and purpose of the study in question, supplementing with sample lessons and numerous original language productions by children. Every suggestion has been tested in the author's schoolroom experience.
- BEEBE, Katherine.
First school year for primary workers. 1895.....372 B37
First appeared in the "*Kindergarten magazine*," 1894-1895.
Practical application of Fröbel's principles to every-day school work. Discusses gifts, occupations, materials, science work, festivals and holidays, beauty in the schoolroom, self-expression, literature for children, etc.
- CURRIE, James.
Principles and practice of early and infant school education.
1891.372 C93
- DU BOIS, Patterson.
Point of contact in teaching. 1900.....372 D85
- ELEMENTARY school record; a series of nine monographs published by the University of Chicago, Feb.-Dec.
1900. 9 nos. in iv. 1900.....r372 E44
Contents: Art.—Music.—Textiles.—Botany.—Kindergarten.—Science.—Manual training.—History.—Curriculum.
These monographs describe principles and details of work in the University elementary school conducted by the pedagogical department of Chicago university.

GEORGE, Minnie M.

Plan book. 3v. 1897.....r372 G31

v.1. Autumn; September, October, November.

v.2. Winter; December, January, February.

v.3. Spring; March, April, May, June.

Suggestions to primary school teachers for a year's work, including nature and science study, literature, etc., and containing numerous stories, poems and songs.

HALL, Granville Stanley.

The contents of children's minds on entering school. 1893..372 H17

ILLINOIS SOCIETY FOR CHILD STUDY.

Transactions. v.1-date. 1894-date.....r372 I22

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v.4, pt.4 never published.

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JOHNSON, Anna.

Education by doing; or, Occupations and busy work for

primary classes. 1884.....372 J35

Explicit directions by an experienced teacher.

LINDLEY, Jacob.

Infant philosophy; an analysis of the faculties of the mind,

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McMILLAN, Margaret.

Early childhood. 1900.....372 M214

Contents: Education in the primary school.—Impressions.—Movements.

—Arm and manual training.—Oral training.—Moral training.—Litera-

ture and children.—The feeble-minded child.—The cost of mental ef-

fort.—Fatigue; normal and abnormal.—Forecast and retrospect.

McMURRY, Charles Alexander.

Special method for literature and history in the common

schools. 1899.....372 M21

MARTINEAU, Harriet.

Household education.....372 M43

Practical suggestions to parents on the physical, intellectual and moral training of children, based on the then (1848) advanced idea that freedom and reason are more effective than command and obedience.

NATIONAL CONGRESS OF MOTHERS.

Work and words of the 1st annual session, 1897. 1897.....r372 N15

For contents see contents book, p.106; kept at the reference desk.

SMITH, Nora Archibald.

The children of the future. 1898.....372 S65

Contents: Study of children.—Training for parenthood.—Charm of the

lily.—Priestly office.—Sand and the children.—Dumb devil.—Un-

walled city.—Perilous times.—Deviser of mischiefs.—"Tell me a

story."—The authentic in kindergarten training.—Gospel of work.—

Brotherhood of Saint Tumbler.—Kindergarten in neighborhood work.

Essays, chiefly relating to the kindergarten, many of which first ap-

peared in the Outlook and in Table talk.

WALKER, Louisa.

Varied occupations in string work, comprising knotting, net-

ting, looping, plaiting and macramé. 1896.....372 W17

Intended for the use of primary and kindergarten teachers. The ex-

ercises are graded into three sections, suitable to the age and capacity

of children varying from five to eight years of age.

WARNER, Francis.

The study of children and their school training. 1897.....372 W23

"The book has been written in the hope of aiding an advance in the

care of children and in the practice of educational methods, by promoting a more exact study and classification of the children to be cared for and trained." *Preface.*

WIGGIN, Mrs Kate Douglas, *afterward* Mrs Riggs.

Children's rights; a book of nursery logic. 1896.....372 W68

Other essays: Children's plays.—Children's playthings.—What shall children read?—Children's stories.—The relation of the kindergarten to social reform.—How shall we govern our children?—The magic of "together."—The relation of the kindergarten to the public school.—Other people's children.

Three of the essays were written by N. A. Smith.

"A very readable collection of essays, literary rather than scientific."
Earl Barnes.

WILTSE, Sara Eliza.

The place of the story in early education, and other essays.

1892372 W77

Other essays: Study of children.—Children's habits.—Learning to use money.—Sound-blindness.—A study of adolescence.—Mental imagery of boys.

"A collection of sympathetic studies on songs and games, children's habits, etc., made by an intelligent interpreter of children's activities."
Earl Barnes.

372.2 Kindergarten

BARNARD, Henry, *ed.*

Papers on Froebel's kindergarten, with suggestions on principles and methods of child culture in different countries. 1890. (Kindergarten and child culture papers.)372.2 B25

Republished from the American journal of education.

BATES, Lois.

Kindergarten guide. 1897.....372.2 B31

"I have tried to show how ordinary school subjects may be taught on kindergarten principles, but this will only be understood by those who have first apprehended the fundamental laws of Fröbel, as explained in the first chapter, and illustrated by the Gifts and Occupations following." *Preface.*

BLOW, Susan Elizabeth.

Letters to a mother on the philosophy of Froebel. 1899.

(International education series.).....372.2 B56

The philosophy of Fröbel is here explained in language addressed to the general public. The author takes up the most important doctrines one after the other as they were developed in the Mutter und Kose lieder, and shows their equivalents in the different systems of thought that prevail. In some cases these systems are in harmony with Fröbel, and in other cases there is profound disagreement.

BLOW, Susan Elizabeth, *ed.*

Songs and music of Froebel's Mother play. 1895. (International education series.).....372.2 B56so

BLOW, Susan Elizabeth.

Symbolic education; a commentary on Froebel's "Mother play." 1894. (International education series.).....372.2 B56s

"Discusses in a practical way the foundations of the philosophy of Froebel as found in 'The Mothers' songs and games,' and shows in a clear manner the significance of the kindergarten and its claims for the important place of corner-stone of education. It is emphatically a book for mothers as well as for teachers, as it gives the desired aid and interpretation of the actions, feelings and thoughts of infancy, and unfolds the true method of training as taught by Froebel." *Critic*, 1894.

CHILD-GARDEN of story, song and play; monthly. v.6-date.

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FLETCHER, Horace.

That last waif; or, Social quarantine. 1898.....372.2 F63

A plea for the protection of children from vice and evil influences, and for the extension of the kindergarten movement among the poor of great cities.

FRÖBEL, Friedrich.

Education by development; the second part of The pedagogics of the kindergarten. 1890.....372.2 F96e

The first part of "The pedagogics of the kindergarten" was devoted especially to the plays and games. In the present volume the educational principles underlying the gifts are more thoroughly discussed.

Education of man. 1894. (International education series.)372.2 F96ed

A standard work first published in 1824, containing a full exposition of Fröbel's philosophy. Dr W. T. Harris says: "This book deserves a thorough annual study by every teacher's reading club in the land."

Mother-play and nursery songs. 1895.....q372.2 F96m

Fröbel said that whoever understood this book understood his philosophy. Two thoughts furnish the key to it: the importance of infancy as the germ stage of life, and the symbolism of all material things.

Mottoes and commentaries of Froebel's Mother play; Mother communings and mottoes rendered into English by H. R.

Eliot, prose commentaries translated and accompanied with an introduction treating of the philosophy of Froebel, by S. E. Blow. 1895. (International education series.)372.2 F96mo

Pedagogics of the kindergarten. 1895. (International education series.).....372.2 F96

GOLDAMMER, Hermann.

The kindergarten; a guide to Froebel's method of education, gifts and occupations. 2v. in 1. 1895.....372.2 G57

HAILMANN, Mrs Eudora Lucas, *ed.*

Songs, games and rhymes for the nursery, kindergarten and primary school, with notes and suggestions. 1887..q372.2 H14

HALL, Granville Stanley.

The story of a sand-pile. 1897.....372.2 H17

Tells how an actual sand-pile taught some bright boys the elements of industrial processes, administration, law, geography, mathematics, etc.

HARRISON, Elizabeth.

Christmas-tide. 1894372.2 H29

Contents: Christmas presents.—The place of toys in the education of a child.—How to celebrate Christmas.—The legend of Santa Claus.—Christmas stories.

HERFORD, William H. *ed.*

Student's Froebel; adapted from Die erziehung der menschheit. 2v.372.2 H46

"Froebel's life and work," p.11-16.

The first part is an abbreviation of Fröbel's "Education of man," consisting of translations of the more important portions, with connecting passages. The second part consists of brief passages, adapted from various writings of Fröbel, dealing with the method of conducting early education on kindergarten lines, with elucidatory comments by the editor.

HILL, Mildred J. & Patty S.

Song stories for the kindergarten; music by M. J. Hill,
words by P. S. Hill. 1896.....q372.2 H55

KINDERGARTEN magazine; monthly. v.1-date. 1889-
dater372.2 K26
v.1, title reads Mothers' portfolio.
v.2-3, title reads the Kindergarten.

KINDERGARTEN review; a monthly magazine devoted to
educational literature and kindergarten news. v.3, no.
7-date. 1893-date.....r372.2 K262
v.6, no.7-10 wanting.
v.3-7, title reads Kindergarten news.

KRAUS-BOELTE, Maria.

Preliminary sewing without a needle; adapted to use in the
kindergarten and systematized in accordance with
Fröbel's methods. 1899.....372.2 K41p

KRAUS-BOELTE, Maria, & Kraus, John.

Kindergarten guide. 2v. 1892.....372.2 K41
v.1. Gifts.
v.2. Occupations.

LYSCHINSKA, Mary J.

Kindergarten principle; its educational value and chief appli-
cations. 1893372.2 L99
A practical handbook of kindergarten occupations, illustrated by dia-
grams, intended primarily for schools, but easily applicable for family
education.

MARENHOLTZ-BÜLOW, Bertha, freiin von.

Child and child-nature. 1895.....372.2 M37c
"Bibliography of Fröbel," p.187-194.
A psychological discussion of child nature, followed by a clear and
valuable exposition of Fröbel's principles and their special applica-
tion to the training of very young children.

Hand work & head work, their relation to one another, and
the reform of education, according to the principles of
Fröbel; tr. by A. M. Christie. (Kindergarten manuals.)..372.2 M37

PEABODY, Elizabeth Palmer.

Education in the home, the kindergarten and the primary
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Lectures in the training schools for kindergartners. 1897....372.2 P33

PITTSBURGH AND ALLEGHENY FREE KINDERGAR-
TEN ASSOCIATION.

Annual report (2d, 6th-7th, 10th), for the year ending Oct.
31, 1894, 1898-1899, 1902. 1894-1902.....r372.2 P67

POULSSON, Emilie.

Finger plays for nursery and kindergarten. 1893.....372.2 P86
In the child's world; morning talks and stories for kinder-
gartens, primary schools and homes. 1899.....j372.2 P86
The same. 1899.....rj372.2 P86
Collection of short stories, entirely suited to little children, with sug-
gestions for additional reading on the subjects presented.

SHIRREFF, Emily.

The kinder-garten; principles of Fröbel's system and their
bearing on the education of women, also Remarks on the
higher education of women. 1897.....372.2 S55

SMITH, Eleanor.

Songs for little children; a collection of songs and games for kindergartens and primary schools. 2v. 1887-94.....q372.2 S64

SMITH, Nora Archibald.

Kindergarten in a nutshell; a handbook for the home. 1899..372.2 S65
Reprinted with additions and alterations from the Ladies' home journal.

SNIDER, Denton Jaques.

Froebel's Mother play songs; a commentary. 1895.....372.2 S67f

The same. New ed. 1895.....372.2 S67f2

Psychology of Froebel's play-gifts. 1900.....372.2 S67

WALKER, Gertrude, & Jenks, H.S. *comp.*

Songs and games for little ones. 1887.....q372.2 W16

A valuable collection, much used in kindergartens.

WIGGIN, Mrs Kate Douglas, *afterward* Mrs Riggs, *ed.*

Kindergarten. 1893.....372.2 W68

Contents: The relation of the kindergarten to social reform, by K. D. Wiggin.—The child and the race, by Mrs M. H. Peabody.—Seed, flower and fruit of the kindergarten, by A. W. Rollins.—A plea for the pure kindergarten, by J. B. Merrill.—The philosophy of the kindergarten, by Angeline Brooks.—An explanation of the kindergarten intended for mothers, by A. A. Chadwick.—The kindergarten in the mother's work, by Mrs E. P. Bond.—Outgrowths of kindergarten training, by Mrs A. B. Longstreet.

WIGGIN, Mrs Kate Douglas, *afterward* Mrs Riggs.

Kindergarten chimes; a collection of songs and games

composed and arranged for kindergartens and primary

schools. 1887.....q372.2 W68ki

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N. A.

Froebel's gifts. 1896. (Republic of childhood, v.1.).....372.2 W68f

Explains in simple terms, for the unprofessional reader, the meaning and use of the ten kindergarten gifts.

Froebel's occupations. 1896. (Republic of childhood,
v.2.)372.2 W68fr

Kindergarten principles and practice. 1896. (Republic
of childhood, v.3.)372.2 W68k

Suggestive chapters on nature study, symbolism, teaching of patriotism, moral training, art in the school-room, kindergarten play, etc.

WILTSE, Sara Eliza.

Kindergarten stories and morning talks. 1898.....372.2 W77

The thought of these stories follows the seasons of the school year from September to June. Suggestions are given to the teacher for developing and illustrating them.

372.3 Object teaching. Nature study

HARRIS, William Torrey.

How to teach natural science in public schools. 1895.

(School-room classics.).....372.3 H29

HARRISON, Elizabeth.

Two children of the foothills. 1900372.3 H298

Describes results of kindergarten experiments on the children of a California ranchman.

JACKMAN, Wilbur Samuel.

Nature study and related subjects for the common schools.

2v. 1896-98q372.3 J12

v.1. Charts. v.2. Notes.

JACOBI, Mrs Mary (Putnam).

Physiological notes on primary education and the study
of language. 1889.....372.3 J13

McMURRY, Charles Alexander, & Mrs Lida Brown.

Special method in natural science, for the first four grades
of the common school. 1899.....372.3 M21

SCOTT, Charles Buchanan.

Nature study and the child. 1900.....372.3 S42

372.4 Reading. 372.5 Drawing. 372.8 Geography

ARNOLD, Sarah Louise.

Reading; how to teach it. 1899..... 372.4 A75
Contains a chapter on the use of the public library, and a list of books,
stories and poems which are suitable for reading or reciting to chil-
dren.

BASS, M. Florence.

Lessons for beginners in reading. 1900j372.4 B29

DALE, Nellie.

On the teaching of English reading, with a running commen-
tary on the Walter Crane readers. 1898.....372.4 D16

POLLARD, Rebecca S.

Synthetic method of reading and spelling. 1897.....372.4 P76

HOLLAND, Anna M.

Clay modelling for schools; a progressive course for
primary and grammar grades. 1899.....372.5 H72
"The aims I have kept in view," says the author, "are the development
of accuracy of observation, of muscular control, and of a sense of form
and proportion, with its resultant love of grace, symmetry, and
beauty." Considers freehand modelling, original work and nature
studies. Contains directions for equipment, with suggestions for teach-
ers. Founded on fourteen years' experience as a teacher.

MACKENZIE, Marion.

Little artist; a guide in water colors for kindergartners,
mothers and teachers in connecting classes and lower
grades of the public schools. 1898.....qr372.5 M18

PHILIP, (George) & SON, *pub.*

Artistic animal studies for drawing in coloured chalks...372.5 P49a

Artistic flower studies for drawing in coloured chalks.....372.5 P49ar

Artistic fruit studies for drawing in coloured chalks.....372.5 P49

McMURRY, Charles Alexander.

Special method in geography, for third and fourth grades.
1900372.8 M21

373 Intermediate education

ABBOTT, Edwin Abbott.

Hints on home teaching. 1883.....373.1 A13
This plain and practical book, by the famous head master of the City of
London school, is full of the most helpful directions as to the best
methods of teaching at home the ordinary subjects of education.
There are also valuable and suggestive chapters on moral training,
religious instruction and home influence.

BENSON, Arthur Christopher.

- Fasti Etonenses; a biographical history of Eton selected from the lives of celebrated Etonians. 1899.....373.4 B44
 "His method is to string together a line of biographical notices of the most distinguished Etonians from the day of Henry VI to that of Mr. Gladstone, and to hang thereon here and there bits of information as to the customs and manners of the school itself at various periods. It is a well-written and well-printed volume, and is adorned with many portraits from the interesting collection at Eton." *Spectator*, 1900.

CLARKE, George.

- Education of children at Rome. 1896.....373.4 C53

CORBIN, John.

- School boy life in England; an American view. 1898.....373.4 C81
Contents: English schools.—Winchester.—Eton.—Rugby.—The public-schools of to-day.—English and American schools.

ROUSE, William Henry Denham.

- History of Rugby school. 1898.....373.4 R77
 Bibliography, p.5-6.

WILMOT, E. P. Eardley, & Streatfeild, E. C.

- Charterhouse old and new. 1895.....373.4 W76
 Bibliography in preface.

THOMAS, Grace Powers, *ed.*

- Where to educate, 1898-1899; a guide to the best private schools, higher institutions of learning, etc., in the United States. 1898r373.7 T37

374 Self-education and culture

BLACKIE, John Stuart.

- Self-culture; intellectual, physical and moral. 1895.....374 B51

CHESTER, Eliza, (*pseud. of Harriet E. Paine*).

- Chats with girls on self-culture. 1892.....374 C42c
 "Devoted to inward and spiritual culture as Dr Bissell's 'Physical Development and Exercise' is to physical. Brightly and entertainingly written. Particularly valuable are the chapters on How shall we learn to observe? How shall we learn to think?" *Nation*, 1891.

Girls and women. 1891.....374 C42

Discusses health, occupation, culture, and society. Written for girls of possible leisure and advanced education; the style is adapted to the average girl.

"In clearness and force, in temperance, in wisdom, and in elevation of feeling, a very remarkable book. It is rather by contagion with a fine nature than by direct argument that books aimed at changes of character accomplish their work. In this book, however, the cogency of presentation is no less remarkable than its persuasiveness." *Nation*, 1890.

CLARKE, James Freeman.

- Self-culture; physical, intellectual, moral and spiritual.
 1892374 C53

CLEVELAND, Grover.

- The self-made man in American life. 1897.....374 C58

DAWSON, William James.

- Making of manhood.....374 D33

HAMERTON, Philip Gilbert.

- Intellectual life. 1894.....374 H19
 A book that is still as pertinent as ever to the wants of every student.

- KING, Mary Perry.
 Comfort and exercise. 1900.....374 K26
Contents: On comfort.—Comfort in daily life.—Comfort in education.—
 Comfort in dress.—Educational exercise.—The ideal gymnasium.
- MARDEN, Orison Swett.
 Pushing to the front; or, Success under difficulties. 1895...374 M37
- MATSON, Henry.
 Knowledge and culture. 1895.....374 M47
- MUNGER, Theodore Thornton.
 On the threshold. 1895.....374 M96
Contents: Purpose.—Friends and companions.—Manners.—Thrift.—
 Self-reliance and courage.—Health.—Reading.—Amusements.—Purity.
 —Faith.
- SMILES, Samuel.
 Self-help374 S64
 Biographical anecdotes pointing lessons of perseverance and good conduct.
- KNOLLYS, Beatrice.
 Gentle art of good talking. 1900.....374.I K34
- MAHAFFY, John Pentland.
 Principles of the art of conversation. 1888.....374.I M25
- DEUTSCHER LESE-VEREIN, Pittsburgh, Pa.
 Katalog, und Goethe souvenir. 1899.....r374.2 D48
- VINCENT, John Heyl, bp.
 The Chautauqua movement. 1886.....374.7 V34
 The plan of applying scientific principles to Bible study and the training
 of Sunday-school teachers, begun at Chautauqua in 1874, expanded to
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 entific circle, and correspondence instruction. Author was the chief
 originator of the movement.
- LONDON, PEOPLE'S PALACE.
 People's palace for East London, opened by Queen Victoria,
 May 14th, 1887.....r374.9 L82

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- CROLY, Mrs Jane (Cunningham), (*pseud.* Jennie June).
 History of the woman's club movement in America.
 1898qr374.3 C88
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 1891374.3 M69

375 Curriculum

- NATIONAL EDUCATIONAL ASSOCIATION—Committee
 of ten.
 Report on secondary school studies, with the reports of
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The same. 1893. (United States—Education bureau.
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TYNDALL, John, *and others.*

- Culture demanded by modern life; addresses on the claims of scientific education. 1895.....375.5 T98
Contents: Youmans on mental discipline in education.—Tyndall on the study of physics.—Henfrey on the study of botany.—Huxley on the study of zoology.—Paget on the study of physiology.—Faraday on the education of the judgment.—Whewell on the educational history of science.—Hodgson on the study of economic science.—Spencer on political education.—Barnard on early mental training.—Liebig on the development of scientific ideas.—Youmans on the scientific study of human nature.—Appendix.

BENNETT, Charles Edwin, & Bristol, G.P.

- Teaching of Latin and Greek in the secondary school. 1901.
 (American teachers' series.).....375.8 B43
 Bibliography at the beginning of each chapter.
 Discusses the educational value of Latin and Greek, reasons for including them in the school curriculum, selection and arrangement of material to be studied, features and methods of class instruction and the various helps which are available for teachers' use.

376 Education of women

BEALE, Dorothea, *and others.*

- Work and play in girls' schools, by three head mistresses.
 1898376 B34
 On methods of teaching the various branches.

BRACKETT, Anna Callender, *ed.*

- Woman and the higher education. 1893.....376 B67
Contents: Preface, by A. C. Brackett.—A plan for improving female education, by Mrs Emma Willard.—Female education, by Mrs E. C. Embury.—The collegiate education of girls, by Maria Mitchell.—A new knock at an old door, by Mrs L. G. Runkle.—A review of the higher education of women, by A. F. Palmer.—The teaching of history in academies and colleges, by L. M. Salmon.—The private school for girls, by A. C. Brackett.
 Representative essays on education of women, selected for Columbian exposition from writings of New York women, 1819-92.

BURSTALL, Sara A.

- Education of girls in the United States. 1894.....376 B94
 Bibliography, p.183-190.
 A study of the subject from the point of view of an English teacher who spent three months in this country making special investigation with regard to secondary schools for girls.

CLARKE, Edward Hammond.

- Building of a brain. 1874.....r376 C52b
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CLAGHORN, Kate Holladay.

- College training for women. 1897.....376.6 C49

McCABE, Lida Rose.

The American girl at college. 1893.....376.6 M12

This book, which refers only to the conditions prevailing at the eastern colleges, is a popular discussion of such subjects as "scholarships and fellowships," "higher specialized work," "social life," "relative cost," "self-help," "practical outcome."

MADDISON, Isabel, and others, comp.

Handbook of courses open to women in British, continental and Canadian universities. 1st-2d ed. and supplement.

1896-1901r376.6 M23

Title of 2d ed. and supplement reads Handbook of British, continental and Canadian universities, with special mention of the courses open to women.

"Full information concerning the conditions on which women are admitted to the Universities, with lists of the professors and lecturers at each, the term times, rules for examinations, degrees that can be conferred on women, and in many cases the cost of board, etc. Directions how to get further information, if necessary, are added. . . A thoroughly practical guide for women who think of going abroad for advanced study, enabling them to decide where it is best to go for particular branches or courses, how to get admission to the selected University, and how to make the most profitable use of the time and labor afterwards." *Critic*.

PALMER, Mrs Alice (Freeman).

Why go to college? 1897.....376.6 P19

THWING, Charles Franklin.

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Emma Willard and her pupils; or, Fifty years of Troy

female seminary, 1822-1872. 1898.....qr376.9 F15

In addition to biographical accounts of Mrs Willard and her successors, the volume contains brief sketches of all the pupils of the seminary during the fifty years from 1822 to 1872.

HEALEY, Elizabeth.

Educational systems of Sweden, Norway and Denmark, with special reference to the education of girls and adults. 1892.....376.9 H39

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ZIMMERN, Alice.

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377 Religious and ethical education

LESSING, Gotthold Ephraim.

Education of the human race. 1883.....377 L64

- REICHEL, William Cornelius.
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Paul H. Hanus in International journal of ethics, 1893.
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378 Colleges and universities

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 Select critical bibliography on student societies, p.307-351.
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Contents: Why go to college?—The choice of a college.—The selection of a course.—The fateful first year.—Fraternities.—Athletics.—Other college enterprises.—Electives.—The choice of life-work.—A few last words.
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 History of the University of Oxford. 1894. (Epochs of church history.).....378.4 B76
- FOSTER, Joseph, *ed.*
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 Reminiscences of Oxford. 1900.....378.4 T81
 "[His] youth was passed in Oxford; and after he took his degree he was for many years Headmaster of the New College choir school. His reminiscences, therefore, up to 1864... are particularly full and interesting... A great many of Mr Tuckwell's sketches belong to the early history of the scientific and musical movements in Oxford... These chapters are probably what will make the book of some permanent value." *Spectator*, 1900.
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- 378.7 United States**
- ALEXANDER, James Waddel.
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 Girard college and its founder. 1854.....r378.7 A68
- BAGG, Lyman Hotchkiss.
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objeto del congreso. 1890.....qr380 O28
- PITKIN, Timothy.
Statistical view of the commerce of the United States.
1817r380 P66
The same. 1817.....380 P66
- POSTLETHWAYT, Malachy.
Great-Britain's commercial interest explained and improved
in a series of dissertations on the most important branches
of her trade and landed interest. 2v. 1759.....r380 P84
- UNITED STATES—American republics bureau.
Annual report (1st-10th), 1891-1900. 1891-1900.....r380 U2534
1st, 7th and 9th reports will be found in v.1, pt.1, v.11 and v.13 of the
Bulletin of the bureau, 1918 A51.
3d and 5th reports will be found in the sheep bound set of congressional
documents, no.3160, 3425.
- Monthly bulletin. v.1-date. 1893-date.....r380 U2534m
v.1 lacks nos.7 and 10; v.3 lacks all nos. except 1-3.

UNITED STATES—Foreign commerce bureau.

- Review of the world's commerce; introductory to Commercial relations of the United States with foreign countries, 1894/95-date. 1896-date.....r380 U25
 Compiled from reports of U. S. consuls and other sources, including the official publications of the Treasury department, and of various foreign governments. Is also to be found at the beginning of the report on Commercial relations, qr382 U25c.

UNITED STATES—Transportation-routes to the seaboard, Committee to investigate the.

- Report; with appendix and evidence. 2v. 1874. (43d cong. 1st sess. Senate. Report no.307.).....r380 U253

UNITED STATES—Transportation-routes to the seaboard, Select committee on.

- Report [recommending the regulation of interstate commerce, and the creation or improvement by the national government of four routes of communication]; with appendix. 1881.....r380 U2533

WESTERN STATES COMMERCIAL CONGRESS, Kansas City, Mo.

- Proceedings of the 1st congress, Apr. 14-17, 1891. 1891....r380 W56

YEATS, John.

- The growth and vicissitudes of commerce in all ages. 1887...380 Y22g

- The natural history of the raw materials of commerce. 1887...380 Y22

Considers the physical conditions and the raw produce, animal, vegetable and mineral, of the United Kingdom, the British colonies and their foreign trade connections. Part II deals with the commercial products of the animal and vegetable kingdoms, and with raw mineral produce.

"Dr. Yeats has the knack of writing popularly upon scientific subjects, and of presenting wide generalizations in a manner at once sober and attractive," *Athenæum*, 1888.

- Recent and existing commerce. 1887.....380 Y22r

Deals with the condition of British industry and trade at the present (1887) day, particularly in relation to agriculture; with British foreign and colonial relations and the commercial policy by which these should be guided; and with what the author calls "The natural divisions of trade throughout the world."

381 Domestic trade

CHICAGO, BOARD OF TRADE.

- Annual report (38th, 40th-date) of the trade and commerce of Chicago, for the year 1895, 1897-date. 1896-date....r381 C43

CINCINNATI, CHAMBER OF COMMERCE.

- Annual report (41st-42d, 48th), for two years ending Aug. 31, 1890 and for the year ending Dec. 31, 1896. 1891-97qr381 C48

NEW YORK (state), CHAMBER OF COMMERCE.

- Annual report (25th), for the year 1882-83. 1883.....r381 N26

PHILADELPHIA, BOARD OF TRADE.

- Annual report (5th, 14th, 27th) of the Philadelphia Board of trade, for 1837, 1846, 1859. 1838-60.....r381 P49

PITTSBURGH, CHAMBER OF COMMERCE.

- Year book and directory for 1895/96-date. 1895-dater381 P67
 Year book for 1900 is wanting.

TUNELL, George Gerard.

Statistics of lake commerce; a report made to the Bureau of statistics, Feb. 3, 1898. 1898. (United States—Statistics bureau.).....r381 T84

382 Foreign trade

ANDREWS, Israel D.

Report on the trade and commerce of the British North American colonies and upon the trade of the Great Lakes and rivers. 1853. (United States. 32d cong. 2d sess. House. Ex. doc. no.136.).....r382 A56
Contents: The sea-fisheries of British North America.—The trade of the Great Lakes.—Review of the canals and railroads of the United States.—Canada; physical features, resources, etc.—New Brunswick.—Nova Scotia.—Newfoundland. — Intercourse between Great Britain and her North American colonies.—Trade of some of the Atlantic ports of the United States with the North American colonies.—Review of the present state of the deep-sea fisheries of New England.—French fisheries of Newfoundland.

BOWLEY, Arthur Lyon.

Short account of England's foreign trade in the 19th century. 1893. (Social science series.).....382 B66

CHAPMAN, Sydney John.

History of trade between the United Kingdom and the United States, with special reference to the effect of tariffs. 1899. (Social science series.).....382 C36

CURTIS, William Eleroy.

Trade and transportation between the United States and Spanish America. 1889. (United States—State department.).....r382 C93

DAVIDSON, John, M. A.

Commercial federation and colonial trade policy. 1900. (Social science series.)382 D29
 Deals with the dominant question in colonial policy, that of markets and consumers. Maintains that commercial federation may best be accomplished by removing natural obstacles to trade with the colonies and even by subsidies to freight steamers running to colonial ports.

ENGLAND—Trade board.

Annual statement of the trade of the United Kingdom with foreign countries and British possessions, 1898, compared with the four preceding years; comp. at the custom house from documents collected by that department. 1899.....qr382 E64

KELLY'S directory of merchants, manufacturers and ship-

pers, and guide to the export and import, shipping and manufacturing industries of the world, 1900. 1900. .qr382 K17
 "Intended to bring together...not only the names of the manufacturers, merchants, exporters, etc., of the United Kingdom trading with the colonies and abroad, but also those of all the more important foreign merchants (whether importers or exporters), and further, those of the manufacturers of the principal goods imported into the United Kingdom." *Preface.*

TIPPER, Henry.

England's attainment of commercial supremacy. 1897.....382 T49

UNITED STATES—Foreign commerce bureau.

Commercial relations of the United States with foreign countries, 1855–date. 1856–date.....qr382 U25c

No volume of this set issued for 1894. Commercial relations for 1894 will be found partly in volume for 1893 and partly in volume for 1895. The reports for 1855 and 1869 will be found in the sheep bound set of congressional documents numbered 844 and 1452.

Annual reports of consular officers on the commerce and industries of their respective districts. "Is wholly distinct from the daily and monthly publication, Consular reports, the latter dealing with current subjects of importance, while Commercial relations deals only with annual reports and statistics."

Included with these reports is an introductory review of the commerce of the world, compiled from them and from other sources, including the official publications of the Treasury department, and of various foreign governments. This is also published separately as "Review of the world's commerce."

Consular reports, monthly, Oct. 1880–date. v.1–date.

1880–date.r382 U25

—Index, nos.1–59. 1887.

—Index, nos.60–111. 1890.

—Index, nos.152–203. 1897.

—Index, nos.204–239. 1901.

No.56, Sept. 1885 will be found in the sheep bound set of congressional documents, no.2413.

v.1–42 title reads Reports from the consuls of the United States on the commerce, manufactures, etc. of their consular districts.

Exports declared for the United States during the four quarters of the year ended June 30, 1899–date. 1900–

dater382 U25c

Single numbers have the title "Exports declared for the United States during the quarter ending," &c.

Special consular reports. v.1–date. 1890–date.....r382 U25s

For contents see contents book, v.2, p.263; kept at the reference desk.

UNITED STATES—Foreign markets section.

Bulletin. no.1–date. 1895–date.....r382 U2533

For contents see contents book, v.2, p.237; kept at the reference desk.

UNITED STATES—Insular affairs division.

Monthly summary of commerce of Cuba, with comparative tables of imports and exports, by articles and countries, July–Dec. 1899, Mar. 1900–date. no.1–6, 9–date. 1900–

dateqr382 U2534m

Monthly summary of commerce of the island of Puerto Rico, with comparative tables of imports and exports, by articles and countries, July 1899–Apr. 1900. no.1–10.

1900qr382 U2534mo

Monthly summary of commerce of the Philippine islands, with comparative tables of imports and exports, by articles and countries, July 1899–date. no.1–date. 1900–

dateqr382 U2534

UNITED STATES—Statistics bureau.

Annual report on the commerce and navigation of the United States, 1837–1842, 1849–date. 1837–date.

(Treasury department.).....qr382 U253c

Title of later reports is "Foreign commerce and navigation of the United States."

Reports for 1837–42 and 1871 will be found in the sheep bound set of congressional documents numbered respectively, 330, 342, 369, 379, 399, 425 and 1512.

Pt.2 of reports for 1876, 1879–80, 1882, 1884–87, 1889–91 is on Internal commerce of the United States.

- Pt. 2 of reports for 1893-96 is on Immigration and passenger movement at ports of the United States.
- Imported merchandise entered for consumption in the United States during 1890-1893, with rates and amounts of duty collected. 1893.....qr382 U25im
- Monthly summary of commerce and finance, Sept. 1875-date. 1875-date.....qr382 U25m
- Titles vary, being at different times "Summary statement of imports and exports," "Monthly summary of imports and exports," "Monthly summary of finance and commerce," etc.
- Volumes from Sept. 1875 to May 1889 are incomplete.
- Quarterly report showing the imports and exports of the United States, for the four quarters of the year ending June 30, 1877-June 30, 1893. 1878-93.....r382 U25q
- The reports for the years ending June 30, 1879, 1880, 1883, and for the 1st-3d quarters of the year ending June 30, 1886, are wanting.
- Statistical tables exhibiting the commerce of the United States with European countries from 1790 to 1890. 1893.....r382 U25st
- Wool and the manufactures of wool; special report relating to the imports and exports of wool and its manufactures, also the tariff duties from 1789. 1887.....r382 U25w
- UNITED STATES—Treasury department.
- Digest of the existing commercial regulations of foreign countries with which the United States have intercourse. 3v. 1833-36.....r382 U253
- Statistics of the foreign and domestic commerce of the United States communicated in answer to a resolution of the Senate, March 12, 1863, embracing a historical review and analysis of foreign commerce from the beginning of the government. 1864.....r382 U253s

383 Post-office

See also United States post-office department, 353.4

- ARGENTINE REPUBLIC—Dirección general de correos y telégrafos.
- Antecedentes administrativos de correos y telégrafos, 1893-1894. 4v. 1894-95. (Publications.).....r383 A691
- Códigos postal y telegráfico. 3v. 1895.....r383 A69
- CUSHING, Marshall.
- Story of our post office. 1893.....r383 C93
- LEECH, D.D.T. *comp.*
- Post office directory; also a comprehensive codification of the existing postal laws. 1856.....r383 L52
- UNITED STATES—Post-office department.
- Report of the United States postal committee on the condition and needs of the postal service in Cuba. 1899.....r383 U25

383.1 Philately*

TIFFANY, John Kerr, *comp.*

Philatelic library; a catalogue of stamp publications.

1874qr383.1 T45

*This collection of books on philately consists chiefly of the library of the American philatelic association, donated in trust to the Carnegie library of Pittsburgh.

383.2 Handbooks

- BAKER, W.H. *comp.*
Cyclopædia of philately. 1887.....r383.2 B17
- BROCK, Robert C. H. *comp.*
History and description of the Sydney view stamps of
New South Wales. 1890.....r383.2 B76
- BROWN, William, *comp.*
Reference list of the stamps of the Straits Settlements, sur-
charged for use in the native protected states. 1894...qr383.2 B798
Reprinted with additions and corrections from the Philatelic journal of
Great Britain.
- DIENA, Emilio.
I francobolli del ducato di Modena e delle provincie modenesi
e le marche del ducato stesso pei giornali esteri. 1894...r383.2 D57f
Les timbres-poste des Romagnes. 1898.....r383.2 D57
- EGAN, Charles W.
Stamp collector's hand-book; a lexicon of terms and practical
hints to philatelists; ed. by C. W. Kissinger. 1894.....r383.2 E34
- EVANS, Edward Benjamin, *comp.*
Philatelic handbook; a guide for collectors. 1885.....r383.2 E94
- FIRTH, Oliver.
Postage stamps and their collection. 1897383.2 F52
- HARDY, William John, & Bacon, E.D.
Stamp collector. 1898. (Collector series.)383.2 H26
Bibliography, p.276-282.
- HORNER, W.E.V.
Stamped envelopes of the United States; revised and con-
tinued by E. B. Hanes. 1889.....qr383.2 H81
- LEITFADEN der briefmarken-kunde für angehende postwert-
zeichen-sammler. 1891 r383.2 L56
- LOCKYER, Gilbert E. *comp.*
Colonial stamps, also those of Great Britain; lists of the
various postal issues, watermarks and perforations, with
geographical and other notes. 1887.....r383.2 L76
- LONDON, PHILATELIC SOCIETY.
Postage stamps, envelopes and post cards of Australia and
the British colonies of Oceania. 1887.....qr383.2 L82
- LUFF, John Nicholas.
What philately teaches. 1899.....r383.2 L97
- SCOTT, John Walter, *ed.*
Revised list of the postage stamps and stamped envelopes of
all nations. 1879.....qr383.2 S42
Contains an appendix on United States locals.
- SUPPANTSCHITSCH, Victor.
Grundzüge der briefmarkenkunde und des briefmarkensammelns.
1895r383.2 S95
- TIFFANY, John Kerr.
History of the postage stamps of the United States. 1887...r383.2 T45

WESTOBY, William A.S.

Adhesive postage stamps of Europe; a practical guide to their collection, identification and classification. 2v. 1898-

1900r383.2 W57

v.1. Alsace to Ionian islands.

v.2. Italy to Würtemberg.

383.3 Catalogues

ALBRECHT, R.F. & CO. *pub.*

Auction prices; an epitome of the prices realized for postage stamps at R. F. Albrecht & co.'s auction sales during four seasons, 1892-95. 1895.....qr383.3 A34

AMERICAN PHILATELIC PUBLISHING CO.

"Our catalogue;" the standard American catalogue of all the postal issues of the entire world, with the revenue stamps of the United States and Canada. 1894.....r383.3 A51

BROWN, Mount, *comp.*

Catalogue of British, colonial and foreign postage stamps.

1864r383.3 B79

CHAMPION, Adrien, *comp.*

Catalogue complet; descriptif de tous les timbres-poste, télégraphes et entiers, indiquant la valeur de chaque timbre..r383.3 C35

DURBIN & HANES, *comp.*

Descriptive catalogue of the postage stamps and stamped envelopes of all nations. 15th, 17th-18th edition. 1885-91.r383.3 D93

GIBBONS, (Stanley) & CO. *pub.*

Priced catalogue of stamps. 3v. 1897.....r383.3 G36

v.1. British empire.

v.2. Foreign countries.

v.3. Envelopes, post cards, etc.

KOHL, Paul, *comp.*

Illustrierter katalog der freimarken von Europa, 1895.

1895r383.3 K36

MEKEEL, (C. H.) STAMP AND PUBLISHING CO.

Complete standard catalogue of the postage stamps of the world, Jan. 1, 1895. 1895.....r383.3 M57

MOENS, Jean Baptiste, *comp.*

Catalogue prix-courant de timbres-poste. 3v. in 2. 1892-

93qr383.3 M76

v.1. Timbres-poste et télégraphes.

v.2. Enveloppes, bandes, cartes et mandats.

MOSCHKAU, Alfred, *comp.*

Handbuch für postmarken-sammler; illustrirter katalog aller bis ende 1887 erschienenen postmarken, couverte und streifbänder, viele erläuternde anmerkungen, hinweise auf fälschungen und neudrucke und bei 2000 marken-abbildungen enthaltend. 1888. (Philatelistische bibliothek.).....r383.3 M93

Contains a supplement bringing the issues down to 1890.

ROGERS, Albert R. *comp.*

Priced catalogue of the market values, May 2, 1892, of the

- postage stamps of the United States, "government issues."
 1892r383.3 R61
- SCOTT STAMP AND COIN CO.
 Standard postage stamp catalogue, 1893-date. 53d edition-
 date. 1893-date.....r383.3 S42
 60th edition, 1901, wanting.
- SENF BROS.
 Illustrierter postwertzeichen-katalog, 1893-1895. 1893-95..r383.3 S47
- SEVER & FRANCIS, *pub.*
 Catalogue of postage stamps, American and foreign, and
 U. S. revenue stamps. 1863.....r383.3 S49
- THORNHILL, W.B.
 Shanghai, with notes and publishers' prices. 1895. (Stanley
 Gibbons philatelic handbooks.).....r383.3 T41
- WILLADT, Carl, *pub.*
 Lager-preisliste. no.5. 1900r383.3 W73
- WOLSIEFFER, P.M. *comp.*
 Our catalogue; the standard American catalogue of all postal
 issues of the world, with the revenue stamps of the United
 States and Canada. 3v. in 1. 1894r383.3 W84
 Wolsieffer's auction sale priced catalogues of rare stamps.
 20v. in 1. 1897-1900.....r383.3 W84w

383.5 Periodicals

- AMERICAN journal of philately; monthly, Mar. 1868-Dec.
 1869, Sept. 3-Nov. 19, 1870, Jan. 1871-Oct. 1872, Jan.-Dec.
 1874, 1888-date. 1st series, v.1-5, 8; 2d series, v.1-date.
 1868-dater383.5 A512
 Publication discontinued from 1878 to 1888, when a new series begins.
 v.3 is incomplete, consisting of the weekly issues from Sept. 3 to Nov.
 19, 1870, only. v.5 lacks numbers for Nov. and Dec.
- AMERICAN philatelist; monthly, 1887-date. v.1-date. 1887-
 dateqr383.5 A51
 With v.8 this is issued annually, and title reads American philatelist
 and year book of the American philatelic association.
 Contains official circulars from Nov. 1886 to June 1887, no.1-4, and
 monthly circulars from Sept. 1893 to Aug. 1895.
- AMERICAN stamp mercury; monthly, Oct. 1867-Mar. 1871.
 4v. in 2. 1867-71.....r383.5 A5122
 No more published.
 v.2-3 title reads American stamp mercury and numismatist.
- BOSTON stamp book; the official organ of the Boston phila-
 telic society; monthly, May 1895-May 1898. v.1-3.
 1895-98r383.5 B64
- CAPITAL city philatelist; monthly, Dec. 1884-Sept. 1886. v.1-
 v.2, no.10, in 1. 1884-86.....r383.5 C18
 No more published.
- CARSON philatelist; monthly, Sept. 1885-Dec. 1886. 2v. in 1.
 1885-86qr383.5 C23
 No more published.
- COLLECTOR'S companion; issued monthly in the interest of
 philatelists, Jan. 1885-May 1886. 2v. in 1. 1885-86.....r383.5 C69
 No more published.

- COLLECTOR'S** ledger; monthly, Apr. 1888-Mar. 1889. v.4.
1888-89.....r383.5 C695
Earlier volumes have the title *Youth's ledger*.
- CUMBERLAND** collector; monthly, May 1886-Apr. 1887.
v.1. 1886-87.....r383.5 C91
No more published.
- DETROIT** philatelist; monthly, Apr. 1892-May 1894. v.1-3,
no.1, in 1. 1892-94.....r383.5 D48
No more published.
- ELECTRIC** philatelist; monthly, Feb. 1892-July 1894. v.1-
4, no.3, in 1. 1892-94.....r383.5 E44
- EMPIRE** state philatelist; monthly, Jan. 1885-June 1887.
3v. in 1. 1885-87.....r383.5 E61
No more published.
- FILATELIC** facts and fallacies; monthly, Oct. 1892-Sept. 1901.
9v. 1892-1901.....r383.5 F47
No more published.
- FOREIGN** stamp collectors' news; monthly, Oct. 1883-Sept.
1884. v.1. 1883-84.....r383.5 F76
- HALIFAX** philatelist; monthly. v.1. 1887.....r383.5 H16
- INTERNATIONAL** collector; monthly, June 1887-June 1889.
v.1-5, no.1, in 1. 1887-98.....r383.5 I24
- INTERNATIONAL PHILATELISTEN-VEREIN**, Dresden.
Vertrauliche mittheilung, Jan. 15, 1899. no.21. 1899...qr383.5 P4944
Bound with *Der Philatelist*.
- INTERNATIONAL** stamp; a semi-monthly in the interests of
stamp collecting, Jan. 23-July 27, 1896. v.1. 1896.....r383.5 I248
- KEYSTONE** philatelic gazette; monthly. v.1-4. 1884-88.....r383.5 K23
v.1, no.9-v.2, no.6, title reads *Keystone stamp and coin gazette*; v.2, no.
7-v.3, no.6, title reads *Stamp and coin gazette*; v.3, no.7-v.4, title reads
Philatelic gazette.
- KEYSTONE** state philatelist; monthly, Jan-Oct. 1887. v.1,
no.1-8. 1887.....r383.5 K239
No more published.
- LONDON** philatelist; the monthly journal of the Philatelic
society. v.1-9. 1892-1900.....qr383.5 L82
- LONG** Island philatelist; a monthly magazine, Mar. 1892-Aug.
1893. v.1-2, no.6, in 1. 1892-93.....qr383.5 L824
- MEKEEL'S** weekly stamp news. v.1-date. 1891-date.....qr383.5 M57w
- METROPOLITAN** philatelist; monthly, Apr. 1890-Sept. 1898.
v.1-9. 1891-98.....r383.5 M64
- MOHAWK** standard, advertiser and chronicle; monthly, Mar.
1886-Feb. 1888. v.1-2, in 1. 1886-88.....r383.5 M77
- NATIONAL PHILATELIC SOCIETY OF NEW YORK**.
Bulletin, Jan. 1878-Mar. 1879. no. 1-3. 1878-79.....r383.5 N155
Published irregularly.
- NATIONAL** philatelist; a monthly magazine devoted to the
interests of stamp collectors. v.1. 1883.....r383.5 N15
No more published.
- NEW ENGLAND** philatelist; monthly, Nov. 1884-Oct. 1885.
v.1. 1884-85.....r383.5 N261
No more published.

- NEW York stamp; a monthly journal, Apr. 1892-Dec. 1895.
v.1-4, no.6, in 1. 1892-95.....r383.5 N26
v.1, no.4-v.4, no.6 title reads The stamp.
- PHILATELIC chronicle and advertiser; monthly, Oct. 1891-
Sept. 1892, Oct. 1895-Sept. 1896. v.1, 5. 1891-96.....r383.5 P496
Consolidated with New York philatelist.
- PHILATELIC journal of America; an illustrated monthly
magazine in interest of stamp collecting; ed. by C. H.
Mekeel, Mar. 1885-Dec. 1888, Jan.-Dec. 1894. v.1-4, 11-12.
1885-94.....qr383.5 P494
- PHILATELIC magazine; monthly, Oct. 1885-June 1887. v.1-
2, no.9, in 1. 1885-87.....r383.5 P494
No more published.
- PHILATELIC monthly, Feb. 1875-Dec. 1898. v.1-24, in 3.
1875-98.....r383.5 P49
v.18-24 title reads Philatelic monthly and world.
- PHILATELIC record; monthly, Feb. 1879-Dec. 1891, 1895,
1897-1899. v.1-13, 17, 19-21. 1879-99.....r383.5 P4945
Nov. 1895 and Nov. 1899 wanting.
v.19-21 title reads Philatelic record and stamp news.
- PHILATELIST; illustrated magazine for stamp collectors;
monthly, Dec. 1866-Dec. 1872. v.1-6. 1867-72.....r383.5 P4947
- Der PHILATELIST; organ für postwerthzeichenkunde; vereins-
zeitung des Internationalen philatelisten-vereins Dresden
und seiner sectionen; semi-monthly and monthly, 1888-
1889, 1897-1899. v.9-10, 18-20, in 2. 1888-99.....qr383.5 P4944
- POST office; a monthly journal for stamp collectors; Apr. 1891-
Dec. 1899. v.1-9. 1892-99.....r383.5 P84
- QUAKER city philatelist; monthly, Jan. 1886-July 1894. v.1-
9, no.7, in 2. 1886-94.....qr383.5 Q16
- STAMP; monthly, Mar. 1886-Apr. 1889. v.1-4, no.2, in 1.
1886-89.....r383.5 S7832
- STAMP collector; monthly, July-Aug. 1886. v.1, no.1-2.
1886.....r383.5 K239
No more published.
Bound with Keystone state philatelist.
- STAMP collectors' Figaro; monthly, Mar.1887-Feb.1891. v.1-5,
no.4, in 1. 1888-91.....qr383.5 S7833
v.5, no.3-4, title reads The stamp collector.
- STAMP collector's monthly. v.1. 1872.....r383.5 S783
- STAMP world; monthly, Oct. 1880-Feb. 1887. 7v. in 1. 1881-
87.....r383.5 S78
No more published.
- STANLEY Gibbons monthly journal, July 1890-June 1900. v.1-
10. 1890-1900.....qr383.5 S787
- Le TIMBRE-poste; journal du collectionneur; monthly. v.1-12,
32, 37, in 10. 1863-99.....r383.5 T47
v.32, 37 title reads Le timbre-poste et le timbre fiscal.
- TRIFET, F.
Monthly circular, Jan. 1874-May 1879. 6v. in 1. 1874-79..r383.5 T73
No more published.
v.3-4, no.11 title reads F. Trifet's monthly stamp circular and price cata-
logue; v.4, no.12-v.6 title reads Monthly stamp circular.
- WEEKLY philatelic era. v.12-date. 1897-date.....qr383.5 W427

WEEKLY philatelist, Nov. 16, 1892-Sept. 12, 1894. v.1-2, in 1.
1892-94.r383.5 W42

383.7 Directories

DAVISON PUBLISHING CO.

Philatelic concordance and address book, also a directory of
stamp collectors. 1895.....r383.7 D32

MEKEEL, (C. H.) STAMP AND PUBLISHING CO.

Stamp collectors' and dealers' address book. 1889.....r383.7 M57

The same. 1891.....r383.7 M57a

ROGERS, Albert R. *pub.*

American philatelic blue book; containing a list of stamp
collectors and dealers, philatelic papers and societies.
1893r383.7 R61

383.8 History and miscellany

AMERICAN PHILATELIC ASSOCIATION.

Catalogue of the loan exhibit of postage stamps to the United
States post office department at the World's Columbian
exposition, Chicago, 1893. 1893.....r383.8 A51

EARÉE, Robert Brisco.

Album weeds; or, How to detect forged stamps. 1882....r383.8 E17

PHILO, *pseud.*

Bluffton stamp society; a story for young stamp collec-
tors. 1887.....r383.8 P51

ROBIE, Lewis.

Stamp hunting. 1898.....r383.8 R54

SCRAP-BOOK of newspaper clippings on philately. 2v..qr383.8 S43

BOSTON PHILATELIC SOCIETY.

Historical reference list of the revenue stamps of the United
States, including the private die proprietary stamps; comp.
by G. L. Toppan, H. E. Deats and Alexander Holland, a
committee of the Boston philatelic society. 1899.....qr383.9 B64

HUBBARD, Gardiner Greene.

Memorial on the postal telegraph system. 1871. (United
States. 41st cong. 3d sess. House. Mis. doc. no.39.).....r1462

385 Railroads

See also Railroad engineering, 625; and Transportation, 656

ADAMS, Charles Francis, b. 1835, & Henry.

Chapters of Erie, and other essays. 1886.....385 A21

Contents: A chapter of Erie, by C. F. Adams.—New York gold conspiracy, by Henry Adams.—An Erie raid, by C. F. Adams.—Capt. John Smith, Bank of England restriction, British finance in 1816, by Henry Adams.—Legal-tender act, by F. A. Walker and Henry Adams.—The railroad system, by C. F. Adams.

BALTIMORE AND OHIO RAILROAD CO.

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Message from the governor relative to the bill entitled An act to provide for the repairs and expenses of the state canals and railroads, and continuing the work on the Erie extension and North Branch division of the Pennsylvania canal, read in the Senate Jan. 9, 1838. 1838..r386 P399 v.2

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Address at the commencement of the Auburn and Owasco canal, Oct. 14, 1835; with the proceedings of the celebration. 1835r380 D24
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- American carrying trade. 1881r387 R53

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 Author was one of the pioneers of the American iron shipbuilding in-
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- Shall Americans build ships? also A militia for the sea, Free
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v.25 contains 2 supplements, entitled Die gesetze der doppelbrechung des lichts in comprimierten oder ungleichförmig erwärmten unkrystallinischen körnern, von F. E. Neumann, and Darstellung der bevölkerungs-, geburts-, ehe- und sterblichkeits-verhältnisse, von J. G. Hoffmann.

v.38 contains 2 supplements, entitled Darstellung der wärme-erscheinungen durch fünftägige mittel von 1782 bis 1835, mit besonderer berücksichtigung strenger winter, von H. W. Dove, and Die spuren der aztekischen sprache im nördlichen Mexico und höheren amerikanischen norden, von J. C. E. Buschmann.

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PENNSYLVANIA UNIVERSITY—Free museum of science and art.

Bulletin, May 1897-date. v.1-date. 1897-dater506 P39
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RHEES, William Jones, comp.

Smithsonian institution; documents relative to its origin and history, 1835-1899. 2v. 1901. (In Smithsonian institution. Miscellaneous collections, v.42-43.)...r506 S66m v.42-43
v.1. 1835-1887.
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ROYAL SOCIETY OF EDINBURGH.

Transactions, 1783-date. v.1-date. 1788-date.....qr506 R813
—General index, 1783-1888, v.1-34. 1890.

ROYAL SOCIETY OF LONDON.

Authentic narrative of the dissensions and debates in the society; containing the speeches at large of Dr Horsley, Dr Maskelyne, Mr Maseres, Mr Poore, Mr Glenie, Mr Watson and Mr Maty. 1784.....r506 R81au

Philosophical transactions. v.91-date. 1801-date.....qr506 R81p
—Index, v.71-110. 1821.

v.168 is an extra volume, being An account of the petrological, botanical and zoological collections made in Kerguelen's Land and Rodriguez during the transit of Venus expeditions, 1874-75.

v.188 contains Rücker and Thorpe's Magnetic survey of the British Isles for the epoch Jan. 1, 1891.

Philosophical transactions and collections, abridg'd and dispos'd under general heads; 1665-1720. 5v. 1705-1721.....qr506 R81
v.1-3. To the end of 1700; by John Lowthorp.
v.4-5. 1701-1720; by Benjamin Motte.

Philosophical transactions, from 1665 to 1800; abridged, with notes and biographic illustrations, by Charles Hutton, George Shaw and Richard Pearson. 18v. 1809.....qr506 R81a

Proceedings, 1800-date. v.1-date. 1832-date.....r506 R81pr
v.1-6 title reads "Abstracts of the papers printed in the Philosophical transactions of the Royal society of London."

SMITHSONIAN INSTITUTION.

СІТІТІІІ

Annual report (8th-date) of the board of regents, 1853-date. 1854-date.....r506 S66

The eighth annual report containing the report for 1853, embraces the essential portions of the preceding seven reports, which were originally published in pamphlet form.

From 1884 the report is in 2 volumes, v.2 being the report of the United States national museum.

1st-35th reports, 1846-80, are indexed in Catalogue of publications of the Smithsonian institution (1846-1882), r506 S66ca.

Contributions to knowledge. v.1-date. 1848-date.....qr506 S66c
For contents see contents book, p.48; kept at the reference desk.

v.1-23, 1848-81, are indexed in Catalogue of publications of the Smithsonian institution (1846-1882), r506 S66ca.

Miscellaneous collections. v.1-date. 1862-date.....r506 S66m
For contents see contents book, p.148; kept at the reference desk.

v.10-12 wanting.

v.1-23, 1862-82, are indexed in Catalogue of publications of the Smithsonian institution (1846-1882), r506 S66ca.

THOMSON, Thomas.

History of the Royal society from its institution to the end of the eighteenth century. 1812.....qr506 T38

WASHINGTON, (D. C.), PHILOSOPHICAL SOCIETY.

Bulletin, 1871-date. v.1-date. 1874-dater506 W27

v.1-10 published by the Smithsonian institution in its Miscellaneous collections, r506 S66m. v.1-3 will be found in v.20, v.4-5 in v.25, and v.6-10 in v.33.

v.10 of the Bulletin contains an index to v.1-10.

YEAR-book of the scientific and learned societies of Great

Britain and Ireland. 1st annual issue-date. 1884-date..r506 Y21

507 Study and teaching

BOSTON SOCIETY OF NATURAL HISTORY.

Guides for science teaching. v.1-3. 1896-98.....507 B64

v.1. Goodale, G.L. Concerning a few common plants.—Phenix, G.P. First lessons in chemistry.—Bowditch, H.P. Hints for teachers of physiology.—Hyatt, Alpheus. About pebbles.—Richards, Mrs E.H.S. First lessons on minerals.—Clapp, H.L. Thirty-six observation lessons on common minerals.—Crosby, W.O. Common minerals and rocks.

v.2. Agassiz, Mrs E.C. First lesson in natural history.—Hyatt, Alpheus. Common hydroids, corals and echinoderms. Commercial and other sponges. The oyster, clam and other common mollusks. Worms and crustacea.

v.3. Hyatt, Alpheus, & Arms, J.M. Insecta.

The same. 1896-98.....r507 B64

CRAMER, Frank.

The method of Darwin; a study in scientific method. 1896..507 C86

GOODE, George Brown.

Origin of the national scientific and educational institutions

of the United States. 1890r507 G62

Reprinted from the Annual report of the American historical association, v.1, p.53-161.

GORE, George.

Art of scientific discovery. 1878.....507 G66

Museums

CARNEGIE INSTITUTE, Pittsburgh—Museum.

Annals. v.12-18. 1901-date.....r507 C21a

Annual report (1st-date) of the director, 1898-date. 1898-

date. (Publications.).....r507 C21

Memoirs. v.1-date. 1901-date.....r507 C21m

v.1. Diplodocus (Marsh); its osteology, taxonomy and probable habits, with a restoration of the skeleton, by J. B. Hatcher.—Oligocene canids, by J. B. Hatcher.

Prize essay contest (1st-date), 1896-date. 1896-date.

(Publications.).....r507 C21p

FIELD COLUMBIAN MUSEUM.

Annual report (1st-date) of the director, 1894/95-date.

1895-date. (Publications; report series.).....r507 F45

LONDON, SOUTH KENSINGTON MUSEUM.

Handbook to the special loan collection of scientific appar-

atus, 1876.....r507 L82

MUSEUMS ASSOCIATION.

Report of proceedings (1st-date), with the papers read at

the annual general meeting, 1890-date. 1890-date.....r507 M98

NEW YORK (state)—Museum.

Annual report (41st-date) of the trustees, 1887-date.

1888-dateqr507 N26

Reports (1st-54th), 1847-1900, are indexed in Bulletin no.66 of the New York state museum, qr507 N26b.

This report contains the reports of the state geologist and paleontologist, the state botanist, and the state entomologist.

For partial contents see contents book, p.206; kept at the reference desk. New York state museum was called State cabinet of natural history until 1871, and State museum of natural history until 1888.

The Reports on the state geological survey which were begun in 1837 are continued in the Reports and Bulletins of the Museum.

Bulletin, May 1887-date. v.1, no.1-date. 1888-date.....qr507 N26b

Bulletins no.1-69, 1887-1902, are indexed in Bulletin no.66.

v.1, no.1-6. Preliminary list of New York unionidæ, by W. B. Marshall.—Contributions to the botany of the state of New York, by C. H. Peck.—Building stone in the state of New York, by J. C. Smock.—Some New York minerals and their localities, by F. L. Nason.—The white grub of the May beetle, by J. A. Lintner.—Cut-worms, by J. A. Lintner.

v.2, no.7-10. First report on the iron mines and iron-ore districts in the state of New York, by J. C. Smock.—Boleti of the United States, by C. H. Peck.—Beaks of unionidæ inhabiting the vicinity of Albany, N. Y., by W. B. Marshall.—Building stone in New York, by J. C. Smock.

v.3, no.11-12. Salt and gypsum industries of New York, by F. J. H. Merrill.—Clay industries of New York, by Heinrich Ries.

no.13. San José scale, aspidiotus perniciosus, and some other destructive scale-insects of the state of New York, by J. A. Lintner. (In qr507 N26 v.48 pt.1 apx.)

no.14. Geology of Moriah and Westport townships, Essex county, N. Y., by J. F. Kemp. (In qr507 N26 v.48 pt.1 apx.)

no.15. Mineral resources of New York state, by F. J. H. Merrill. (In qr507 N26 v.48 pt.1 apx.)

no.16. Aboriginal chipped stone implements of New York, by W. M. Beauchamp. (In qr507 N26 v.50 pt.1 apx.)

no.17. Road materials and road building in New York, by F. J. H. Merrill. (In qr507 N26 v.50 pt.1 apx.)

no.18. Polished stone articles used by the New York aborigines before and during European occupation, by W. M. Beauchamp. (In qr507 N26 v.51 pt.1 apx.1.)

no.19. Guide to the study of the geological collections of the New York state museum, by F. J. H. Merrill. (In qr507 N26 v.51 pt.1 apx.1.)

no.20. Elm-leaf beetle in New York state, by E. P. Felt. (In qr507 N26 v.52 pt.1 apx.)

no.21. Geology of the Lake Placid region, by J. F. Kemp. (In qr507 N26 v.52 pt.1 apx.)

no.22. Earthenware of the New York aborigines, by W. M. Beauchamp. (In qr507 N26 v.52 pt.1 apx.)

no.23. Fourteenth report on the injurious and other insects of the state of New York, by E. P. Felt. (In qr507 N26 v.52 pt.1 apx.)

no.24. Memorial of life and entomologic work of J. A. Lintner, by E. P. Felt. (In qr507 N26 v.52 pt.1 apx.)

no.25. Report of the state botanist, 1898. (In qr507 N26 v.52 pt.1 apx.)

no.26. Collection, preservation and distribution of New York insects, by E. P. Felt. (In qr507 N26 v.53 pt.1 apx.1.)

no.27. Shade tree pests in New York state, by E. P. Felt. (In qr507 N26 v.53 pt.1 apx.1.)

no.28. Plants of North Elba, Essex county, N. Y., by C. H. Peck. (In qr507 N26 v.53 pt.1 apx.1.)

no.29. Preliminary list of the mammals of New York, by G. S. Miller. (In qr507 N26 v.53 pt.1 apx.1.)

no.30. Petroleum and natural gas in New York, by Edward Orton. (In qr507 N26 v.53 pt.1 apx.1.)

no.31. Fifteenth report of the state entomologist on injurious and other insects of the state of New York, 1899, by E. P. Felt. (In qr507 N26 v.53 pt.1 apx.1.)

v.7, no.32-36. Aboriginal occupation of New York, by W. M. Beauchamp.—Check list of New York birds, by M. S. Farr.—Lower Silurian system of eastern Montgomery county, New York, by E. R. Cumings; Notes on stratigraphy of Mohawk valley and Saratoga

- county, New York, by C. S. Prosser.—Clays of New York, by Heinrich Ries.—Sixteenth report of the state entomologist on injurious and other insects of the state of New York, by E. P. Felt.
- v.8, no.37-44. Illustrated descriptive catalogue of some of the more important injurious and beneficial insects of New York state, by E. P. Felt.—Key to the land mammals of northeastern North America, by G. S. Miller.—Paleontologic papers, by J. M. Clarke.—Anatomy and physiology of *polygyra albolabris* and *limax maximus* and embryology of *limax maximus*, by G. B. Simpson.—Wampum and shell articles used by the New York Indians, by W. M. Beauchamp.—Hudson river beds near Albany and their taxonomic equivalents, by Rudolf Ruedemann.—Clam and scallop industries of New York state, by J. L. Kellogg.—Lime and cement industries of New York, by Heinrich Ries; Chapters on the cement industry in New York, by E. C. Eckel.
- v.9, no.45-48. Guide to the geology and paleontology of Niagara Falls and vicinity, by A. W. Grabau; with a chapter on Post-pliocene fossils of Niagara, by E. J. Letson.—Scale insects of importance and list of the species in New York state, by E. P. Felt.—Aquatic insects in the Adirondacks, by J. G. Needham and Cornelius Betten.—Pleistocene geology of portions of Nassau county and borough of Queens, by J. B. Woodworth.
- v.10, no.49-54. Paleontologic papers 2.—Horn and bone implements of the New York Indians, by W. M. Beauchamp.—Catalogue of New York reptiles and batrachians, by E. C. Eckel and F. C. Paulmier.—Report of the state paleontologist, 1901.—17th report of the state entomologist on injurious and other insects of the state of New York, 1901.—Report of the state botanist, 1901, by C. H. Peck.
- no.56. Description of the state geologic map of 1901, by F. J. H. Merrill.
- no.60. Catalogue of the fishes of New York, by T. H. Bean.
- no.61. Quarries of bluestone and other sandstones in the Upper Devonian of New York state, by H. T. Dickinson.
- no.62. Natural history museums of the United States and Canada, by F. J. H. Merrill.
- no.64. Report of the state entomologist on injurious and other insects of the state of New York, 1902.
- no.65. Catalogue of type specimens of paleozoic fossils in New York state museum, by J. M. Clarke.
- no.66. Index to publications of the New York state natural history survey and New York state museum, 1837-1902, also including other New York publications on related subjects, by Mary Ellis.
- no.67. Report of the state botanist, 1902.
- no.68. Aquatic insects in New York state, by J. G. Needham and others.
- no.69. Report of the state paleontologist, 1902.
- no.70. List of New York mineral localities, by H. P. Whitlock.
- no.71. Feeding habits and growth of *Venus mercenaria*, by J. L. Kellogg.

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- Bulletin. no.33-date. 1889-date.....r507 U25b
 v.1-3 containing no.1-16 may be found in Miscellaneous collections of the Smithsonian institution, v.13, 23-24, r506 S66m.
 no.39 is not yet finished; the library has pts.A-P.
 Bulletins no.1-50 are indexed in Bulletin no.51.
- Proceedings, 1878-date. v.1-date. 1879-date.....r507 U25
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-508 Collected works

BOYLE, Robert.

- Works. 6v. 1772.....qr508 B67
 Life of Robert Boyle, by Thomas Birch, v.1, p.6-218.

BUFFON, Georges Louis Leclerc, comte de.

- Œuvres complètes, avec les descriptions anatomiques de Dabenton. 44v. 1824-32r508 B86
 v.1-11. Théorie de la terre.
 v.12. Histoire générale des animaux.

- v.13-15. Histoire naturelle de l'homme.
- v.16-29. Mammifères.
- v.30-40. Oiseaux.
- v.41. Planches: Théorie de la terre.—Histoire des minéraux.—Histoire naturelle de l'homme.—Histoire naturelle des animaux.
- v.42-43. Planches: Mammifères.
- v.44. Planches: Oiseaux.

DAVY, Sir Humphry.

Collected works; ed. by his brother John Davy. 9v. 1839-40..1508 D32

- v.1. Memoirs of his life, by John Davy.
- v.2. Early miscellaneous papers.
- v.3. Researches, chiefly concerning nitrous oxide.
- v.4. Elements of chemical philosophy.
- v.5. Bakerian lectures and miscellaneous papers from 1806 to 1815.
- v.6. Miscellaneous papers and researches.
- v.7. Discourses delivered before the Royal society, and Agricultural lectures, pt.1.
- v.8. Agricultural lectures, pt.2; and other lectures.
- v.9. Salmonia, and Consolation in travel.

509 History of science

BUCKLEY, Arabella Burton, *afterward* Mrs Fisher.

Short history of natural science, and of the progress of discovery from the time of the Greeks to the present day.

1892509 B85

"This simply written and admirable little work gives to chemistry its share of space in the history of science. It can be cordially recommended to all who wish to read of the mutual relations of the sciences, and their growth from earliest times." *H. C. Bolton.*

GRIMSHAW, Robert.

Record of scientific progress for 1891. 1892.....509 G92

HOFF, Jacob Hendrik van't.

Ueber die entwicklung der exakten naturwissenschaften im 19. jahrhundert und die betheiligung der deutschen gelehrten an dieser entwicklung. 1900

1509 H67

HUXLEY, Thomas Henry.

Advance of science in the last half-century. 1901509 H98

Reprinted from "The reign of Queen Victoria, a survey of fifty years of progress;" ed. by T. H. Wood.

LUBBOCK, Sir John, baron Avebury.

Fifty years of science; being the address delivered at York

to the British association, 1881. 1895.....509 L96

WHEWELL, William.

History of the inductive sciences. 2v. 1894.....509 W62

"One of the great books of the last half century..." "The Relations of Greek Philosophy to the Physical Sciences;" the 'Physical Sciences in Antiquity;' the 'Physical Sciences in the Middle Ages;' the 'Mechanical Sciences;' the 'Analytical Sciences,' and the 'Organical Sciences,' are the titles under which the eighteen books of this remarkable work are grouped." *C. K. Adams.*

WILLIAMS, Henry Smith.

Story of 19th century science. 1900.....509 W74

"A serious work, written by a man who, if he does not everywhere show himself a master of the particular branch of science of which he is treating...yet does show that he knows what science really is better than a good many men who go by the name of scientists." *Nation*, 1900.

510 Mathematics

CASTLE, Frank.

Workshop mathematics. 2v. 1900510 C27

Treats of arithmetic, algebra and mensuration in a simple, practical manner. Written for workmen desiring a knowledge of such mathematical subjects as may be of use in the workshop.

CHICAGO RECORD, *pub.*

Mathematics. 1899. (Home study circle; ed. by Seymour

Eaton.)510 C43

Contents: Mechanics' bids and estimates.—Mensuration for beginners.—Easy lessons in geometrical drawing.—Elementary algebra.—A first course in geometry.

HOUSTON, Edwin James, & Kennelly, A.E.

Interpretation of mathematical formulæ. 1898.....510 H83

LÜBSEN, Heinrich Borchert.

Mathematics self-taught; adapted from the German by H. H.

Suplee. v.1. 1897.....510 L96

v.1. Arithmetic and algebra.

MERRIMAN, Mansfield, & Woodward, R.S. *ed.*

Higher mathematics; a text-book for colleges. 1896.....510 M63

Contents: Merriman, Mansfield. Solution of equations.—Weld, L. G. Determinants.—Halsted, G.B. Projective geometry.—McMahon, James. Hyperbolic functions.—Byerly, W.E. Harmonic functions.—Fiske, T.S. Functions of a complex variable.—Johnson, W.W. Differential equations.—Hyde, E.W. Grassman's space analysis.—Macfarlane, Alexander. Vector analysis and quaternions.—Woodward, R.S. Probability and theory of errors.—Smith, D.E. History of modern mathematics.

ORMSBY, M.T.

Elementary practical mathematics. 1900 510 O28

Contents: Arithmetic.—Algebra.—Geometry.—Trigonometry.—Solid geometry.—Mensuration.—Differential and integral calculus.

Includes the parts of various branches of mathematics which are frequently employed in the workshop, paying special attention to the use of mathematical knowledge for practical calculations.

PERRY, John, *b.* 1850.

Practical mathematics; summary of six lectures delivered to workingmen, with exercises supposed to be worked after

every lecture. 1899510 P44

Published by the Department of science and art of the committee of council on education, London.

CLIFFORD, William Kingdon.

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Contents: Number.—Space.—Position.—Motion.

DE MORGAN, Augustus.

On the study and difficulties of mathematics. 1898.....510.1 D42

DAVIES, Charles, & Peck, W. G. *comp.*

Mathematical dictionary. 1883.....r510.3 D31

CAYLEY, Arthur.

Collected mathematical papers. 14v. 1889-98.....qr510.4 C29

v.14 contains an index.

"Ten years ago Cayley commenced the gathering together of his numerous contributions to the leading mathematical journals of Europe and America. They date from 1841 while he was yet a Cambridge undergraduate, and were 900 in number when the work of collective publication commenced...We have before us the thirteen huge volumes of

mathematical essays, reviews, and criticisms testifying to the amazing zeal and untiring industry of the greatest mathematical intellect of the present century." *Literature*, 1898.

LAGRANGE, Joseph Louis, comte.

Lectures on elementary mathematics; tr. by T. J. McCormack. 1898.....510.4 L15
Biographical sketch of the author, p.7-13.

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Publications; mathematics. v.1-date. 1897-date.....r510.5 P39

v.1. Aley, R.J. Contributions to the geometry of the triangle.—Heyl, P.R. Properties of the locus $r=\text{constant}$, in space of n dimensions.

SCHUBERT, Hermann.

Mathematical essays and recreations. 1898.....510.7 S38
Contents: Notion and definition of number.—Monism in arithmetic.—On the nature of mathematical knowledge.—The magic square.—The fourth dimension.—The squaring of the circle.

SMITH, David Eugene.

Teaching of elementary mathematics. 1900. (Teachers' professional library.).....510.7 S64
"Teacher's book-shelf," p.297-305.

510.8 Tables and instruments

BABBAGE, Henry Prevost, *ed.*

Babbage's calculating engines; a collection of papers relating to them, their history and construction. 1889....q510.8 B11

ELLWOOD, J.K.

Table book and test problems in mathematics. 1892.....510.8 E53

HALL, John L. *comp.*

Tables of squares; containing the true square of every foot and fraction thereof from 0 to 100 feet advancing by one-sixteenth of an inch. 1899.....r510.8 H17

HALSEY, Frederic Arthur.

Use of the slide rule. 1899.....510.8 H18
Mainly a reprint of a series of articles which originally appeared in the "American machinist."

TAYLOR, F. Glanville.

Introduction to the practical use of logarithms, with examples in mensuration. 1901510.8 T25
Thorough explanation in simple language of the methods of calculation by the use of logarithms.

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CAJORI, Florian.

History of mathematics. 1895.....510.9 C12

FINK, Karl.

Brief history of mathematics. 1900.....510.9 F49

GOW, James.

Short history of Greek mathematics. 1884.....510.9 G75

511 Arithmetic

COLBURN, Warren.

Intellectual arithmetic upon the inductive method. 1884....511 C67

- CONANT, Levi Leonard.
The number concept; its origin and development. 1896.....511 C74
- DEAN, Philotus.
Intermediate arithmetic; for public schools and academies.
1865.r511 D34
- GOFF, Milton B.
First book in arithmetic. 1876.....r511 G56
- HOW to become quick at figures. 1885.....511 H84
- LANDER, S.
Our own primary arithmetic. 1863.....r511 L22
This is a Confederate publication with some curious propositions.
Our own school arithmetic. 1863.....r511 L220
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- LANGLEY, Edward Mann.
Treatise on computation; methods for contracting and abbreviating arithmetical calculations. 1895.....511 L25
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Psychology of number and its applications to methods of teaching arithmetic. 1895. (International education series.)511 M19
For teachers in elementary schools.
"Knowing the nature and origin of number and numerical properties as psychological facts, the teacher knows how the mind works in the construction of number, and is prepared to help the child think number; is prepared to use a method, helpful to the normal movement of the mind. In other words, rational method in arithmetic must be based on the psychology of number." *Authors.*
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Technical arithmetic and mensuration. 1896. (Text-books of science.)511 M63
The same; Key, by John Hunter. 1889. (Text-books of science.)511 M63h
Assumes some previous knowledge of the subject. Reviews carefully the elementary part, and gives a plain, thorough treatment of the more advanced portions.
- SEELEY, Levi.
Grubé's method of teaching arithmetic. 1891.....511 S45
Authorities, p.4; sketch of Grubé, p.5-6.
- SOLDAN, F.Louis.
How to teach elementary arithmetic; Grubé's method of teaching arithmetic explained, with practical hints and illustrations. 1878511 S68
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Science and art of arithmetic, for the use of schools. 2v. in 1.
1870 511 S69
- STOCKTON, Joseph.
Western calculator; or, A new system of practical arithmetic. 1839.....r511 S86
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High school arithmetic. 1893.....511 W52

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- FINE, Henry Burchard.
Number-system of algebra treated theoretically and historically. 1890.....512 F49
- GRIFFIN, William Nathaniel.
Elements of algebra and trigonometry. 1892. (Text-books of science.)512 G89
"The purpose of this book is to explain the rudiments of Algebra and Trigonometry to artisans and others, who may wish to be acquainted with them so far as to make the computations which arise in practice, and to read books in which science is treated mathematically."
Preface.
- Notes on the elements of algebra and trigonometry, with solutions of the more difficult questions. 1892. (Text-books of science.)512 G89n
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Algebra self-taught, for the use of mechanics, young engineers and home students. 1898512 H53
A brief outline of elementary algebra, intended to give a practical working knowledge sufficient to enable students to use the formulæ ordinarily found in technical writings.
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Analyse générale; ou, Méthodes nouvelles pour résoudre les problèmes de tous les genres & de tous les degrés à l'infini. 1733qr512 L15
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Algebra. 1889.....512 T55
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Elements of algebra. 1898.....512 W52
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Vector analysis; a text-book for the use of students of mathematics and physics, founded upon the lectures of J. W. Gibbs. 1901. (Yale bicentennial publications.).....512.24 W76
Contents: Addition and scalar multiplication.—Direct and skew products of vectors.—The differential calculus of vectors.—The integral calculus of vectors.—Linear vector functions.—Rotations and strains.—Miscellaneous applications.
A system designed to be of especial value in its application to physics and geometry.

512.8 Higher algebra

- MUIR, Thomas.
Treatise on the theory of determinants, with graduated sets of exercises; for use in colleges and schools. 1882....512.83 M95
- MCGINNIS, M.A.
Universal solution for numerical and literal equations, by which the roots of equations of all degrees can be expressed in terms of their coefficients. 1900.....512.84 M16
Binder's title reads Functions of squares.

LAURENT, Hermann.

L'élimination. 1900. (Scientia; série physico-mathématique.)r512.85 L37

513 Geometry

BEMAN, Wooster Woodruff, & Smith, David Eugene.

Plane and solid geometry. 1898.....513 B42

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Elements; first six books and portions of the eleventh and twelfth. 1891.....513 E91

LARMOR, Alexander.

Geometrical exercises from Nixon's "Euclid revised," with solutions. 1901 513 L32

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WATSON, Henry William.

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Includes both plane and solid geometry.

LOBATSCHESKY, Nicholas.

Geometrical researches on the theory of parallels. 1892.....513.8 L75

MANNING, Henry Parker.

Non-Euclidean geometry. 1901513.8 M33

WILLINK, Arthur.

The world of the unseen; an essay on the relation of higher space to things eternal. 1893.....513.8 W75

KLEIN, Felix.

Famous problems of elementary geometry; the duplication of the cube, the trisection of an angle, the quadrature of the circle. 1897.....513.9 K31

SPENCER, William George.

Inventional geometry; a series of problems. 1876.
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514 Trigonometry

NEWCOMB, Simon.

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v.2. The electric telegraph.—Automatic and duplex telegraphy.—The laying and repair of submarine cables.—Testing submarine cables.—The telephone. — Dynamos. — Motors.—Transformers. — The arc lamp.—The incandescent lamp.—Underground mains. — Electric meters.—Electric light safety devices.—Systems of electric distribution.—Electric transmission of energy.—Electric traction.—Electrodeposition.—Electric welding.

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BULLETIN de la Société chimique de Paris. v.1-date. 1858-

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1re année-date. 1887-date.....r540.5 B875

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weekly, 1842-1859. 17v. 1842-59.....r540.5 C4211

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CHEMICAL news and journal of physical science; weekly.

v.1-date. 1860-date.....qr540.5 C4212

A continuation of the Chemical gazette.

CHEMICAL SOCIETY OF LONDON.

Memoirs, 1841/42-1847/48. 3v. in 2. 1843-48.....r540.5 C421m

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A continuation of the Memoirs and proceedings of the society.

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Index, v.1-25 of the Journal, 1848-72; and of the Memoirs and proceedings, 1841-47. 1847.

Index, v.26-42, 1873-82.

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- CHEMIST**; or, Reporter of chemical discoveries and improvements, and protector of the rights of the chemist and chemical manufacturer; monthly. v.1-8. 1840-47.....r540.5 C42
- DEUTSCHE CHEMISCHE GESELLSCHAFT ZU BERLIN.**
 Berichte. 3er jahrgang-date. 1870-date.....r540.5 D48
 ———Generalregister, 1868-77, jahrgang 1-10. 1880.
 ———Generalregister, 1878-87, jahrgang 11-20. 1888.
 ———Generalregister, 1888-96, jahrgang 21-29. 1898.
- JAHRBUCH der chemie**; hrsg. von Richard Meyer, 1891-date.
 1er jahrgang-date. 1892-date.....r540.5 J15
 ———General-register über die jahrgänge 1891 bis 1900; v.1-10. 1903.
- JAHRESBERICHT** über die fortschritte der reinen, pharmaceutischen und technischen chemie, physik, mineralogie und geologie, 1847-date. 1er jahrgang-date. 1849-dater540.5 J152
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 1893-date title reads Jahresbericht über die fortschritte der chemie.
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 ———Sach- und namenregister, v.61-90, 1854-1863.
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- JOURNAL of the American chemical society**; monthly, 1879-date. v.1-date. 1879-date.....r540.5 J466
 A continuation of the Proceedings of the American chemical society.
 ———General index, v.1-20, 1879-1898; and to the Proceedings, 1877-1879. 1902.
- MONATSHEFTE für chemie und verwandte theile anderer wissenschaften**; gesammelte abhandlungen aus den sitzungsberichten der Kaiserlichen akademie des wissenschaften, 1880-date. v.1-date. 1892-date.....r540.5 M81
 ———Generalregister, 1880-1889, v.1-10. 1894.
- PHARMACEUTISCHES central-blatt**; weekly. v.1-date. 1830-date.r540.5 P48
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- RECUEIL des travaux chimiques des Pays-Bas.** v.1-date. 1882-date.r540.5 R26
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- REVIEW of American chemical research**; monthly. v.1-date. 1895-dater540.5 R36
 Contributed by members of the instructing staff of the Massachusetts institute of technology.
 This periodical is issued as part of the Technology quarterly and of the Journal of the American chemical society, in which the current numbers will be found.
- REVUE générale de chimie pure & appliquée**; monthly. v.1-date. 1899-date.....qr540.5 R37
 From 1901-date a supplement is issued with the title, "Répertoire général de chimie pure et appliquée," qr540.5 R3522.

BOLTON, Henry Carrington, *comp.*

Chemical societies of the nineteenth century. 1902. (In
Smithsonian institution. Miscellaneous collections, v.
41.)r506 S66m v.41
Gives date of formation, place, name of presiding officer, number of
members, titles of publications, etc.

540.8 Collected works

FRANKLAND, Edward.

Experimental researches in pure, applied and physical chem-
istry. 1877540.8 F87

GLAUBER, Johann Rudolph.

Works; containing great variety of choice secrets in medicine
and alchymy, in the working of metallick mines and the
separation of metals; also various cheap and easie ways
of making salt-petre, and improving of barren-land, and the
fruits of the earth. 3v. in 1. 1689qr540.8 G46

GRAHAM, Thomas.

Chemical and physical researches. 1876.....r540.8 G77
For contents see contents book, p.102; kept at the reference desk.

540.9 History

DUCLAUX, Émile.

Pasteur; histoire d'un esprit. 1896.....r540.9 D86
Contents: Travaux de cristallographie.—Fermentations lactique et alcoo-
lique.—Générations spontanées.—Vins et vinaigres.—Études sur les
maladies des vers à soie.—Études sur la bière.—Étude sur l'étiologie
des maladies microbiennes.—Étude des virus et vaccins.

KOPP, Hermann.

Die entwicklung der chemie in der neueren zeit. 3v. in 1.
1871-73. (Geschichte der wissenschaften in Deutschland,
v.10.)r540.9 K38
The period covered is approximately from 1700 to 1870.
Geschichte der chemie. 4v. in 2. 1843-47r540.9 K38g
"A classical work, above praise." *H. C. Bolton.*

LADENBURG, Albert.

Lectures on the history of the development of chemistry since
the time of Lavoisier. 1900540.9 L13
Reviews briefly the main steps in the advance; attempts to bring out
the connection of past theories with those now held.

LIEBIG, Justus, baron von, & Schönbein, C.F.

Briefwechsel, 1853-1868; mit anmerkungen, hinweisen und
erläuterungen, versehen und hrsg. von G. W. A. Kahlbaum
und Eduard Thon. 1900. (Monographien aus der ge-
schichte der chemie.)540.9 L69
The correspondence of these noted chemists throws valuable light on
chemical history. These letters tell us of their own work, the new
discoveries of the period, and the theories then held.

MEYER, Ernst von.

History of chemistry, from earliest times. 1898540.9 M65
"An ably written, condensed history, covering the entire period of
chemistry, and from a modern standpoint. The progress of the
science since Lavoisier is treated particularly fully." *H. C. Bolton.*

RAMSAY, Sir William.

Gases of the atmosphere; the history of their discovery.

1896.540.9 R18

"Discovery of argon," p.146-240.

Written for persons without special scientific training.

TILDEN, William Augustus.

Short history of the progress of scientific chemistry in our
own times. 1899.....540.9 T46

VENABLE, Francis Preston.

Short history of chemistry. 1900540.9 V25

Good brief survey of the growth of chemistry from earliest times to the
present day.

541 Theoretical chemistry

CARNEGIE, Douglas.

Law and theory in chemistry. 1894.....541 C21

"Contains the substance of a summer-school course of eight lectures delivered before an audience of teachers of elementary chemistry."

Preface.

COOKE, Josiah Parsons.

First principles of chemical philosophy. 1868.....r541 C77f

Gives much prominence to the doctrine of special types, the prevailing theory at the time the book was written.

New chemistry. 1892. (International scientific series.)...541 C77n

"Written in popular style; aims to develop the general principles of the new chemistry in systematic order; substances and processes are described only as far as necessary to illustrate principles. To enjoy this work fully the reader should know the elements of chemistry." *H. C. Bolton.*

The same. 1874. (International scientific series.).....r541 C77

Principles of chemical philosophy. 1891.....541 C77

GRAHAM, Thomas, *ed.*

Chemical reports and memoirs. 1848. (Cavendish society.

Publications.)r541 G77

Contents: An atomic volume, by Prof. Otto and M. Filhol.—Isomorphism, by Prof. Otto.—Endosmosis, by Julius Vogel.—Simultaneous contrast of colours, by M. Chevreul.—The latent heat of steam at different pressures, by M. Regnault.—The artificial formation of alkalis, by M. E. Kop.—Volcanic phenomena, by Prof. Bunsen.

HOFF, Jacob Hendrik van't.

Lectures on theoretical and physical chemistry; tr. by R. A.

Lehfeldt. 3v. 1898-99541 H67le

v.1. Chemical dynamics.

v.2. Chemical statics.

v.3. Relations between properties and composition.

To van't Hoff is due a large share of the advances made in the past few years in physical chemistry. This book is a reproduction of his lectures at the University of Berlin. A considerable knowledge of mathematics and physics is required in the reader.

Studies in chemical dynamics. 1896.....q541 H67

HOOKE, Robert.

Extracts from Micrographia: or, Some physiological descriptions of minute bodies made by magnifying glasses, with observations and inquiries thereupon. 1894. (Alembic club reprints.).....541 H77

LOCKYER, Sir Joseph Norman.

Inorganic evolution as studied by spectrum analysis.

1900.54I L76

Upholds the hypothesis that chemical elements are polymers or compounds of polymers of one matter; and that this matter exists everywhere among the stars in different degrees of polymerization and combination of polymers.

MEYER, Lothar.

Outlines of theoretical chemistry. 189954I M65

"Presents a summary of the most recent theories of chemical philosophy; it is better adapted for advanced students than for the general reader. A standard work." *H. C. Bolton.*

The same. 1892r54I M65

MUIR, Matthew Moncrieff Pattison.

Treatise on the principles of chemistry. 1889.....54I M95

"A well-written work, abreast of the times, suitable for advanced students." *H. C. Bolton.*

NERNST, Walther.

Theoretische chemie, vom standpunkte der Avogadro'schen

regel und der thermodynamik. 1900.....54I N23

An exceedingly clear statement of the facts and problems of theoretical chemistry. Is less exhaustive than Ostwald's "Lehrbuch der allgemeinen chemie," and pays especial attention to further applications of the theories.

OSTWALD, Wilhelm.

Grundriss der allgemeinen chemie. 1899.....r54I O29g

An exposition of the physical principles underlying chemical phenomena.

The author is an acknowledged authority on the subject.

Outlines of general chemistry. 1895.....54I O29

"Designed to meet the requirements of the student who, while not intending to devote himself to the detailed study of general chemistry, still wishes to follow intelligently the progress recently made in this important branch of science." *Author's preface.*

REMSEN, Ira.

Principles of theoretical chemistry, with special reference to

the constitution of chemical compounds. 189754I R33

541.1 Physical chemistry

DEVENTER, Ch.M. van.

Physical chemistry for beginners; tr. by B. B. Boltwood.

1899541.1 D48

Clear and concise. Only slight physical and mathematical knowledge is necessary.

The same; tr. by R. A. Lehfeldt. 1897.....r541.1 D48

HOFF, Jacob Hendrik van't.

Leçons de chimie physique professées à l'université de

Berlin. 3v. 1898-1900.....r541.1 H67

v.1. La dynamique chimique.

v.2. La statique chimique.

v.3. Relations entre les propriétés et la composition.

JONES, Harry Clary.

Elements of physical chemistry. 1902.....541.1 J41

A summary of investigations made by the oldest physicists, as well as an account of those instituted by the later physical chemists. The work is characterized by the author's usual clarity and precision.

JOURNAL of physical chemistry; ed. by W. D. Bancroft & J.

F. Trevor; monthly. v.1-date. 1896-date.....qr541.1 J46

Published at Cornell university.

LEHFELDT, R.A.

Text-book of physical chemistry. 1899.....541.1 L55

"Some of the most important works on physical chemistry," p.11.

"Intended to contain what a student—with limited time and many subjects to learn—may usefully read." *Preface*.

Very clearly written.

REYCHLER, A.

Outlines of physical chemistry; tr. fr. the French by John

McCrae. 1899.....541.1 R37

Bibliographical note, p.268.

Broader in treatment than is usual in an elementary book. Recommended to beginners having a fair knowledge of chemistry.

WALKER, James.

Introduction to physical chemistry. 1899.....541.1 W16

"As I have assumed that the student who uses this book has already taken ordinary courses in chemistry and physics, I have devoted little or no space to the explanation of terms or elementary notions which are adequately treated in the text-books on those subjects...I have throughout avoided the use of any but the most elementary mathematics." *Preface*.

ZEITSCHRIFT für physikalische chemie, stöchiometrie und

verwandtschaftslehre. v.1—date. 1887—date.....r541.1 Z43

Published irregularly; edited by Wilhelm Ostwald and J. H. van't Hoff.

JONES, Harry Clary, *ed.*

Modern theory of solution; memoirs by Pfeffer, van't Hoff, Arrhenius and Raoult. 1899. (Scientific memoirs.)

541.12 J41

Contents: Pfeffer, W. Osmotic investigations.—Biography of Pfeffer.—Van't Hoff, J. H. Role of osmotic pressure in the analogy between solutions and gases.—Biography of van't Hoff.—Arrhenius, S. On the dissociation of substances dissolved in water.—Biography of Arrhenius.—Raoult, F.M. General law of the freezing of solvents.—Raoult, F.M. On the vapor-pressure of ethereal solutions.—Raoult, F.M. General law of the vapor-pressure of solvents.—Biography of Raoult.

Bibliography, p.129-132.

The physical chemistry of to-day is founded upon the theories advanced in these papers.

MORGAN, John Livingston Rutgers.

An outline of the theory of solution and its results, for chemists and electricians. 1897.....541.12 M89

"Gives in clear language the gist of the theory of solution, how it has arisen, and what it is to-day. The treatment and style is as non-mathematical as the nature of the subject permits." *C. E. Linebarger in the Journal of the American chemical society*.

WHETHAM, William Cecil Dampier.

Solution and electrolysis. 1895.....r541.12 W62

Explains clearly and concisely our theoretical knowledge of these subjects.

LANDOLT, Hans.

Optical activity and chemical composition; tr. by John

McCrae. 1899.....r541.15 L22

This forms the eighth chapter of the first volume of Graham-Otto's "Lehrbuch der chemie."

NAUMANN, Alexander.

Lehr- und handbuch der thermochemie. 1882.....541.16 N16

Technisch-thermochemische berechnungen zur heizung insbesondere mit gasförmigen brennstoffen. 1893..qr541.16 N16

THOMSEN, Julius.

Thermochemische untersuchungen. 4v. 1882-86.....r541.16 T38

v.1. Neutralisation und verwandte phänomene.

- v.2. Metalloide.
 v.3. Wässrige lösung und hydratbildung.—Metalle.
 v.4. Organische verbindungen.

541.17 Electrochemistry

ARRHENIUS, Svante August.

Lehrbuch der elektrochemie. 1901.....r541.17 A77
 A text-book suitable for advanced high school pupils.

BERMBACH, Willibald.

Die wichtigsten grundbegriffe der elektrochemie und ihre
 verwertung bei den neueren theorien der galvanischen
 elemente und akkumulatoren. 1900.....r541.17 B45
 A brief survey of so much of theoretical chemistry as is needed for a
 thorough understanding of modern electrochemical theory.

BLOUNT, Bertram.

Practical electro-chemistry. 1901.....541.17 B56
 Describes only processes which are, or are likely to be, of use industri-
 ally.
 "In spite of a few blemishes, the...most satisfactory work of its kind in
 any language." *Wilder D. Bancroft, in the Journal of physical chemis-*
try, 1901.

BORCHERS, Wilhelm.

Die elektrochemie, und ihre weitere interessenssphäre auf
 der Weltausstellung in Paris, 1900. 1901.....qr541.17 B63
 Vermehrte und verbesserte ausgabe des in der "Zeitschrift für elektro-
 chemie" erschienenen berichtes.
 A very thorough report on the condition of electrochemical industries
 as shown at the Paris exposition of 1900, the first in which they
 were treated in a separate class. Dr Borchers is a leading authority
 on electrochemistry, and was a member of the international jury at
 Paris, (1901).

GOODWIN, Harry Manly, ed.

Fundamental laws of electrolytic conduction. 1899. (Scien-
 tific memoirs.).....541.17 G63
Contents: Relation by measure of common and voltaic electricity, by
 Michael Faraday. — On electrochemical decomposition, by Michael
 Faraday.—Biographical sketch of Faraday.—On the migration of ions
 during electrolysis, by W. Hittorf.—Biographical sketch of Hittorf.—
 On the conductivity of electrolytes dissolved in water in relation to
 the migration of their components, by F. Kohlrausch.—Biographical
 sketch of Kohlrausch.
 Bibliography, p.94-96.

GORE, George.

Electro-chemistry; inorganic. [1888.] (Electrician
 series.)541.17 G66
 "Intended to contain, in systematic order, the chief principles and
 facts of electro-chemistry, and to supply the student of electro-plating
 or electro-metallurgy a scientific basis upon which to build the addi-
 tional practical knowledge and experience of his trade...It will not
 supply the technical details necessary for the accurate quantitative
 determination of metals by electro-chemical processes; references to
 sources of such information will, however, be given." *Introductory*
note.

JAHRBUCH der elektrochemie, 1894-date. 1er jahrgang-

date. 1895-date.....r541.17 J15

JONES, Harry Clary.

Outlines of electrochemistry. 1901.....q541.17 J41
 Appeared first in the Electrical review, v.39, 1901, under the title
 "Selected chapters in electrochemistry."
 Intended particularly for the use of electrical engineers who desire
 some knowledge of the theory of electrochemistry.

- Theory of electrolytic dissociation, and some of its applications. 1900.....541.17 J41t
- KOHLRAUSCH, Friedrich, & Holborn, L.
Das leitvermögen der elektrolyte, insbesondere der lösungen;
methoden, resultate und chemische anwendungen.
1898.r541.17 K36
"Literatur," p.137-143.
"The work is...beyond criticism and cannot be too heartily commended
to those interested in conductivity work." *American chemical journal*,
1899.
- KOLBE, Hermann.
Electrolysis of organic compounds; papers, (1845-1868).
1900. (Alembic club reprints.).....541.17 K36
Contains Kolbe's account of his earliest experiments, also his classic
memoir upon the electrolysis of valerianates and acetates.
- LE BLANC, Max.
Elements of electrochemistry. 1896.....541.17 L47
- LÖB, Walter.
Electrolysis and electrosynthesis of organic compounds.
1898.541.17 L75
The same. 1898.....r541.17 L75
- MOISSAN, Henri.
Le four électrique. 1897.....541.17 M78
Very clear accounts of some of the author's experiments in reducing
metallic oxides and producing diamonds with the aid of the intense
heat of the electric furnace.
- TOMMASI, Donato.
Traité théorique et pratique d'électrochimie. 1889.....qr541.17 T59
- ZEITSCHRIFT für elektrochemie; weekly. v.1-date. 1894-
date.qr541.17 Z43
Organ der Deutschen elektrochemischen gesellschaft.

541.2 Atoms. Molecules

- BILTZ, Heinrich.
Practical methods for determining molecular weights; tr. by
H. C. Jones and S. H. King. 1899.....541.2 B48
"A masterly summation of the practical methods for determining molec-
ular weights by the vapor-density and the cryoscopic methods, with
a careful criticism of the different procedures, and a comparison of
the usefulness of one with the other." *Journal of the American
chemical society*.
- DALTON, John, and others.
Foundations of the atomic theory; comprising papers and ex-
tracts. 1893. (Alembic club reprints.).....541.2 D17
Reproduction of the earliest printed account (1807) of the atomic
weight theory as proposed by Dalton. Also contains papers by Wol-
laston (1808) on super-acid and sub-acid salts.
- Foundations of the molecular theory; comprising papers and
extracts. 1893. (Alembic club reprints.).....541.2 D17f
"The papers here printed in chronological order serve to exhibit the
historical development of the idea of a connection existing between
the number of particles in different gases and the volume they occupy."
Preface.
- JONES, Harry Clary.
The freezing-point, boiling-point, and conductivity methods.
1897.541.2 J41
Short laboratory guide to the use of these methods of molecular weight
and conductivity determinations.

MURRAY, David Ambrose.

Atoms and energies. 1901.....541.2 M97

Author claims that all atoms are "identical in essence and [vary] only as to their size and shape;" an atom being "an Impenetrable Expanse of the Ability to Modify and be Moved by Energy." These atoms are acted upon by only two energies, an attractive and a repellent; energy, however, being "a distinct Entity, not a mode of motion."

RISTEEN, A.D.

Molecules and the molecular theory of matter. 1895.....541.2 R49

WURTZ, Charles Adolphe.

The atomic theory. 1891. (International scientific series.)...541.2 W97

Points out the origins and follows up the development of this celebrated theory in as plain language as the subject permits.

541.3 Chemical affinity

FARADAY, Michael.

Course of lectures on the chemical history of a candle, to which is added a lecture on platinum. [1861.].....541.3 F22

"In no work on chemistry have the phenomena of combustion, the nature of the atmosphere, and the chemistry of coal-gas been more clearly presented. The work is a little old-fashioned, but its fundamental statements are sound, and the absence of technicalities will always make it charming." *H. C. Bolton.*

REY, Jean.

Essays on an enquiry into the cause wherefore tin and lead increase in weight on calcination. 1895. (Alembic club reprints.)541.3 R37

First published in pamphlet form at Bazas in 1630.

"Apart altogether from the historical interest of the work, the quaint and lively style of the author makes his Essays still worthy of perusal." *Preface.*

541.7 Stereochemistry

FREUNDLER, P.

La stéréochimie. [1899.] (Scientia; série physico-mathématique.)541.7 F93

Bibliographie, p.97-98.

A critical and descriptive review of stereochemical theory at the close of the nineteenth century.

HOFF, Jacob Hendrik van't.

Arrangement of atoms in space; tr. by Arnold Eiloart.

1898.541.7 H67

Contents: Stereochemistry of carbon. — Stereochemistry of nitrogen compounds.—Stereochemical isomerism of inorganic compounds.

"Van't Hoff's work appeared first in French under the title 'La chimie dans l'espace' (1875). A German translation appeared in 1877 under the title 'Die Lagerung der Atome im Raume.' In 1887 a 2d French edition appeared under the title 'Dix années dans l'histoire d'une théorie.' The 2d German ed. (1894) from which the present English translation was made 'is not so much a new edition of the first German work, as a German revision of van't Hoff's 'Dix années dans l'histoire d'une théorie,' enriched by the growth of our knowledge during the last seven years.'" *Preface to the 2d ed.*

PASTEUR, Louis.

Researches on the molecular asymmetry of natural organic products. 1897. (Alembic club reprints.).....541.7 P28

Translation of two lectures before the Chemical society of Paris in 1860. Describes the steps which led to his views on optical isomerism.

RICHARDSON, George Mann, *ed.*

Foundations of stereo-chemistry; memoirs by Pasteur, van't Hoff, LeBel and Wislicenus. 1901. (Scientific memoirs.)541.7 R41

Contents: The asymmetry of naturally occurring organic compounds, by Louis Pasteur.—Biographical sketch of Pasteur.—Structural formulas in space, by J. H. van't Hoff.—Biographical sketch of van't Hoff.—Relation between atomic formulas of organic compounds and the rotatory power of their solutions, by J. A. LeBel.—Biographical sketch of LeBel.—Space arrangement of the atoms in organic molecules and the resulting geometrical isomerism in unsaturated compounds, by Johannes Wislicenus.—Biographical sketch of Wislicenus.

Bibliography, p.133-135.

Pasteur's article gave the first suggestion leading to our present views of the space relations of the atoms in the molecule; van't Hoff's and LeBel's memoirs first gave a definite idea of what the arrangement might be. Wislicenus first took up their theory and applied it systematically to explain relationships.

541.8 Solubility

COMEY, Arthur Messinger, *comp.*

Dictionary of chemical solubilities, inorganic. 1896.....r541.8 C73

RAOULT, François Marie.

Tonométrie. 1900. (Scientia; série physico-mathématique.)r541.8 R19

Bibliographie, p.115-116.

541.9 Tables. Calculations

ADRIANCE, John S. *comp.*

Laboratory calculations and specific-gravity tables. 1897..541.9 A24

ALLEN, John Alpheus, *comp.*

Tables for iron analysis. 1896.....541.9 A42

The same. 1896.....r541.9 A42

For the rapid calculation of the results of analyses.

BIEHRINGER, Joachim.

Einführung in die stöchiometrie; oder, Die lehre von der quantitativen zusammensetzung der körper und ihren mit dieser zusammenhängenden eigenschaften. 1900.....541.9 B47

Describes briefly the theory, and illustrates its practical application by a large number of well-selected numerical problems. These are worked out, and a careful explanation of the method is given. A thorough, practical guide to chemical and physico-chemical calculations.

CARNELLEY, Thomas.

Physico-chemical constants; melting and boiling point tables.

2v. 1885-87.....qr541.9 C21

Catalogue of reference literature, v.1, p.21-24.

LANDOLT, Hans, & Börnstein, Richard, *comp.*

Physikalisch-chemische tabellen. 1894.....qr541.9 L22

Contains bibliographies.

LAURENT, Auguste.

Chemical method, notation, classification & nomenclature.

1855. (Cavendish society. Publications.).....r541.9 L37

MILLER, Edmund Howd.

Calculations of analytical chemistry. 1900.....541.9 M69

Explains clearly and thoroughly all the calculations usually needed in the analytical laboratory.

MORGAN, John James, *comp.*

Tables for quantitative metallurgical analysis, for laboratory use. 1899.....r541.9 M89

WADDELL, John.

Arithmetic of chemistry; a simple treatment of the subject of chemical calculations. 1899.....541.9 W11

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 v.3, pt.1. Tannins, dyes and coloring matters, writing inks.
 v.3, pt.2. Amines and ammonium bases, hydrazines, bases from tar, vegetable alkaloids.
 v.3, pt.3. Vegetable alkaloids (concluded), non-basic vegetable bitter principles, animal bases, animal acids, cyanogen and its derivatives.
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Deals principally with American geology.
Author is (1897) Blair professor of geology and paleontology in Princeton university.
- SHALER, Nathaniel Southgate.
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An excellent introduction to geology; chiefly dynamic. Treating the action of the forces which have shaped the earth; considering the formation and history of pebbles, sand, mud and soils; the making of rocks and coal; the work of air and water, volcanoes and earthquakes; the formation of mineral veins and caverns, hills and mountains, valleys and lakes. A brief sketch follows of the fossil contents of the rocks, the appearance of species, and development of organic life. A short description of the most important rocks is added. Simple in statement, flowing and narrative in style. Presupposes no geologic knowledge. Adapted to the beginner or general reader; may be used as a primer for earliest class-work; may be read together with the same author's "Story" or as preliminary to Le Conte's "Elements."
- STEELE, Joel Dorman.
Story of the rocks; fourteen weeks in popular geology. 1877.550 S81
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Interesting talks, addressing children and young people. Describes simple observations, beginning with the home neighborhood, extending to field, lake, stream, and mountain; then glancing at historical geology, the nebular hypothesis, and reviewing cosmical development to the present time. No illustrations. Adapted to use as reading for beginners.
- DONNELLY, Ignatius.
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• PRENTISS, Henry Mellen.

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Contents: The Jeannette search and the polar current; letter to Clements Markham.—The Jeannette; letter to the New York Herald.—The results of the Jeannette expedition.—The north pole and the south pole.—The north polar basin.—Nansen's "Farthest north."—Peary's new plan for reaching the pole.—The Antarctic.

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Contents: Origin of lake basins.—Movements of lake waters and the geological functions of lakes.—Topography of lake shores.—Relation of lakes to climatic conditions.—The life histories of lakes.—Studies of special lacustral histories.

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Report on the clay deposits of Woodbridge, South Amboy and other places in New Jersey; together with their uses for fire brick, pottery, etc. 1878.....qr553.61 N26

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 formations.
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- Report of progress from its commencement to 1863. 2v.
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 This report includes the most important facts published in the "Reports
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 "The operations of the Geological Survey at first extended only to
 the areas of the Provinces of Ontario and Quebec, then known as
 Upper and Lower Canada respectively. Subsequent to the date of
 Confederation (1867), the field became extended to include the whole
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HAYDEN, Ferdinand Vanderveer.

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report by J. S. Newberry. 1876. (United States—En-
gineer department (army).)qr557.8 M21

OWEN, David Dale.

Report of a geological survey of Wisconsin, Iowa and Minne-
sota and of a portion of Nebraska territory, with atlas of
illustrations. 2v. 1852.qr557.7 O34
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Report on the geographical and geological survey of the
Rocky mountain region. 1877.r557.8 P87

UNITED STATES—Geological and geographical survey of
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Annual report (1st-12th), for the year 1867-78. 1872-83. .r557.8 U25

"This survey, organized under the Department of the Interior, was
directed by F. V. Hayden (hence commonly known as Hayden's sur-
vey) from 1867 to 1878. Twelve *Annual reports* and a number of
Bulletins were issued, chiefly concerning Colorado, Wyoming and
Montana. The first careful descriptions of many remarkable features
in the Rocky Mountain region were published in these volumes. A
detailed account of the Yellowstone Park is included in the 11th
report. Many of the outline illustrations, from drawings by W. H.
Holmes, are unexcelled. A geological atlas of Colorado accompanies
these reports." *Larned's Literature of American history*.

"By act of March 3, 1879, the Geological and Geographical Survey of

the Territories, the Geographical and Geological Survey of the Rocky Mountain Region, and the Geographical Surveys West of the One hundredth Meridian were discontinued, and the United States Geological Survey established in their stead."

Bulletin. 6v. 1875-82.r557.8 U25b

v.1 lacks no.1 [1st series] and no.4, 2d series; v.3 lacks no.4.

For contents see contents book, v.3, p.328; kept at the reference desk.

"The First and Second Bulletins, which appeared in 1874, are separately paged pamphlets, without ostensible connection with each other or with subsequent ones, but together constituting a 'First Series' of the publication. Bulletins which appeared in 1875, being those of a 'Second Series' and six in number, are continuously paged. With No.6 were issued title, contents, index, &c., for all the numbers of both 'series' which had then appeared; the design being that these should together constitute Volume 1, in order that the inconvenient distinction of 'series' might be dropped."

Final report of the survey of Nebraska and portions of the adjacent territories, by F. V. Hayden. 1872.r557.82 U25

The report on Paleontology is by F. B. Meek; that on Entomology by S. H. Scudder.

UNITED STATES—Geological exploration of the 40th parallel. (King exploration.)

Report of the geological exploration of the 40th parallel; made by Clarence King. 7v. 1870-80. (Engineers corps. Professional papers, no.18.)qr557.8 U253

v.1. King, Clarence. Systematic geology.

v.2. Hague, Arnold, & Emmons, S.F. Descriptive geology.

v.3. Hague, J.D. Mining industry, with geological contributions by Clarence King.

v.4. Meek, F.B. Paleontology.—Hall, James, & Whitfield, R. P. Paleontology.—Ridgway, Robert. Ornithology.

v.5. Watson, Sereno. Botany.

v.6. Zirkel, Ferdinand. Microscopical petrography.

v.7. Marsh, O.C. Odontornithes; a monograph on the extinct toothed birds of North America.

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Later geological surveys

UNITED STATES—Geological survey.

Annual report (1st-date), [for the year ending June 30, 1880-date]. 1880-date.qr557.3 U25a

From 1894 to 1899 this report (16th-22d) includes Mineral resources of the United States, which before and after that date are published separately.

Pt.2 of the 10th, 11th and 12th reports, and pt.3 of the 13th report are the reports (1st-4th) of the Irrigation survey.

Pt.4 of the 18th, 19th, 20th, 21st and 22d reports are on hydrography.

Pt.5 of the 19th, 20th and 21st reports are on forest reserves.

For a list of the "Accompanying papers" see contents book, p.56; kept at the reference desk.

1st-21st reports are indexed in Bulletin 177 of the Survey.

By a joint resolution of May 16, 1902 the character of the Reports of the Geological survey was somewhat changed: The Reports were restricted to one volume and much of the material previously included in them under the title "Accompanying papers" will now be found in the various series of publications of the survey namely: "Bulletins," "Professional papers" and "Water supply and irrigation papers."

Bulletin. no.1-date. v.1-date. 1884-date.r557.3 U25b

For contents see contents book, p.5; kept at the reference desk.

no.1-176 are indexed in no.177.

Geologic atlas of the United States. Folio 1-95, in 6v.

1894-1903qr557.3 U25g

v.1. Folio 1-16. Livingston, Montana.—Ringgold, Georgia; Tennessee.—Placerville, California.—Kingston, Tennessee.—Sacramento, California.—Chattanooga, Tennessee.—Pike's Peak, Colorado.—Sewanee,

- Tennessee.—Anthracite-crested Butte, Colorado.—Harper's Ferry, Virginia; Maryland; West Virginia.—Jackson, California.—Estillville, Kentucky; Virginia; Tennessee.—Fredericksburg, Virginia; Maryland.—Staunton, Virginia; West Virginia.—Lassen Peak, California.—Knoxville, Tennessee; North Carolina.
- v.2. Folio 17-32. Marysville, California.—Smartsville, California.—Stevenson, Alabama; Georgia; Tennessee.—Cleveland, Tennessee.—Pikeville, Tennessee.—McMinnville, Tennessee.—Nomini, Maryland; Virginia.—Three Forks, Montana.—Loudon, Tennessee.—Pocahontas, Virginia; West Virginia.—Morristown, Tennessee.—Piedmont, West Virginia; Maryland.—Nevada City, California, (special).—Yellowstone national park, Wyoming.—Pyramid Peak, California.—Franklin, West Virginia; Virginia.
- v.3. Folio 33-48. Briceville, Tennessee.—Buckhannon, West Virginia.—Gadsden, Alabama.—Pueblo, Colorado.—Downieville, California.—Butte special folio, Montana.—Truckee, California.—Wartburg, Tennessee.—Sonora, California.—Nueces, Texas.—Bidwell Bar, California.—Tazewell, Virginia; West Virginia.—Boise, Idaho.—Richmond, Kentucky.—London, Kentucky.—Tennile district special folio, Colorado.
- v.4. Folio 49-64. Roseburg, Oregon.—Holyoke, Massachusetts; Connecticut.—Big trees, California.—Absaroka, Wyoming.—Standingstone, Tennessee.—Tacoma, Washington.—Fort Benton, Montana.—Little Belt Mountains, Montana.—Telluride, Colorado.—Elmore, Colorado.—Bristol, Virginia; Tennessee; La Plata, Colorado.—Monterey, Virginia; West Virginia.—Menominee special folio, Michigan.—Mother Lode district, California.—Uvalde, Texas.
- v.5. Folio 65-80. Tintic special folio, Utah.—Colfax, California.—Danville, Illinois; Indiana.—Walsenburg, Colorado.—Huntington, West Virginia; Ohio.—District of Columbia; Maryland; Virginia.—Spanish peaks, Colorado.—Charleston, West Virginia.—Coos Bay, Oregon.—Colgate, Indian territory.—Maynardville, Tennessee.—Austin, Texas.—Raleigh, West Virginia.—Rome, Georgia; Alabama.—Atoka, Indian territory.—Norfolk, Virginia; North Carolina.
- v.6. Folio 81-96. Chicago, Illinois; Indiana.—Masontown-Uniontown, Pennsylvania.—New York city, New York; New Jersey.—Ditney, Indiana.—Oelrichs, South Dakota; Nebraska.—Ellensburg, Washington.—Camp Clarke, Nebraska.—Scotts Bluff, Nebraska.—Port Orford, Oregon.—Cranberry, North Carolina; Tennessee.—Hartville, Wyoming.—Gaines, Pennsylvania; New York.—Etikland.—Tioga, Pennsylvania.—Brownsville.—Connellsville, Pennsylvania.—Columbia, Tennessee.

Folios 1-70 are indexed in Bulletin 177 of the Survey.

Mineral resources of the United States, 1882-date. r557.3 U25

Reports for 1894-1899 will be found in the Annual reports of the United States geological survey.

Reports for 1882-1899 are indexed in Bulletin 177 of the Survey.

For earlier reports see United States—Mining statistics, Commissioner of. Statistics of mines and mining in the states and territories west of the Rocky mountains, r553 U25.

Topographic atlas of the United States. Folio 1-3. 1898-

1900. qr557.3 U25t

Folios 1-3 are indexed in Bulletin 177 of the Survey.

"The topographic sheets represent a great variety of topographic features, and with the aid of descriptive text they can be used to illustrate topographic forms. This has led to the projection of an educational series of topographic folios, for use wherever geography is taught in high schools, academies, and colleges. Of this series the first three folios have been issued, viz: 1-2. Physiographic types, by Henry Gannett. 3. Physical geography of the Texas region, by R. T. Hill."

Topographic sheets. 1882-date. qr557.3 U25to

These sheets are indexed in no. 177 of the Bulletins of the Survey.

Index maps to the Topographic atlas sheets issued to August 1902, will be found in qr557.3 U25i.

"When, in 1882, the Geological Survey was directed by law to make a geologic map of the United States, there was in existence no suitable topographic map to serve as a base for the geologic map. The preparation of such a topographic map was therefore immediately begun. About three-tenths of the area of the country, excluding Alaska, has now [1901] been thus mapped. The map is published in

atlas sheets, each sheet representing a small quadrangular district...
The mapped areas are widely scattered, nearly every State being
represented."

About 1225 of the atlas sheets have been issued and are in the library.

PATTON, Jacob Harris.

Natural resources of the United States. 1888.....r557.3 P31

The same; condensed. 1891. (Science primers.).....557.3 P31

The same. 1897. (Science primers.)r557.3 P31n

SHALER, Nathaniel Southgate, and others.

Geology of the Narragansett basin. 1899. (United States—

Geological survey. Monographs.).....qr557.4 S52

"Bibliography of the Cambrian and carboniferous rocks of the Narra-
gansett basin," p.212-214.

State surveys

Maine

MAINE—Geological survey.

Annual report (2d-3d) on the geology of Maine, by Charles

T. Jackson. 1838-39.....r557.41 M26

Report of an exploration and survey of the territory on the

Aroostook river during the spring and autumn of 1838,

by E. Holmes. 1839.....r557.41 M26

Bound with the Annual report of the geology of Maine.

STONE, George Hapgood.

Glacial gravels of Maine and their associated deposits. 1899.

(United States—Geological survey. Monographs.)..qr557.41 S87

Bibliography, p.2-4.

New Hampshire

NEW HAMPSHIRE—Geological survey. (1st survey.)

Final report on the geology and mineralogy of New Hamp-

shire, with contributions towards the improvement of agri-

culture and metallurgy, by C. T. Jackson. 1844.....qr557.42 N26

"The nature of the work was mineralogical. The general view of age
and structure presented was that of the older authors, all granite
being regarded as 'Primary,' and the dips of strata outward in every
direction from an igneous center." C. H. Hitchcock.

NEW HAMPSHIRE—Geological survey. (2d survey.)

Geology of New Hampshire; report comprising the re-

sults of explorations ordered by the legislature, by

C. H. Hitchcock. 4v. 1874-78.....qr557.42 N26g

v.1. Physical geography.

v.2. Stratigraphical geology.

v.3. Surface geology.—Mineralogy and lithology.—Economic geology.

v.4. Atlas.

Vermont

VERMONT—Geological survey.

Annual report (1st-2d) on the geology of Vermont, 1845-

1846. 1845-46.....r557.43 V27

Report of the state geologist on the mineral industries and

geology of certain areas, 1901-1902. 1902.....r557.43 V27re

List of official reports and other publications on Vermont geology,
p.14-21.

- Report on the geology of Vermont; descriptive, theoretical, economical and scenographical, by Edward Hitchcock and others. 2v. 1861.....qr557.43 V27r
 This is the final report of the survey which was begun in 1845. The state made no appropriation for geological work between the years 1861 and 1896, and the so-called state geologist was really only curator of the State Cabinet. Whatever geological work was done was carried on without state aid.

Massachusetts

- MASSACHUSETTS—Geological survey.
 Final report, by Edward Hitchcock. 2v. 1841.....qr557.44 M45
 v.1. Economical geology.—Scenographical geology.
 v.2. Scientific geology.—Elementary geology.—Catalogue of the specimens of rocks and minerals in the state collection.
 Report on the geology, mineralogy, botany and zoology of Massachusetts, with a descriptive list of the specimens of rocks and minerals collected for the government, by Edward Hitchcock. 1833.....qr557.44 M45r
Contents: Economical geology.—Topographical geology.—Scientific geology.—Catalogues of animals and plants.
 PUMPELLY, Raphael, and others.
 Geology of the Green Mountains in Massachusetts. 1894.
 (United States—Geological survey. Monographs.)...qr557.44 P98
Contents: Geology of the Green Mountains in Massachusetts, by Raphael Pumpelly.—The geology of Hoosac Mountain and adjacent territory, by J. E. Wolff.—Mount Greylock; its areal and structural geology, by T. N. Dale.
 EMERSON, Benjamin Kendall.
 Geology of old Hampshire county, Massachusetts, comprising Franklin, Hampshire and Hampden counties. 1898.
 (United States—Geological survey. Monographs.)...qr557.442 E58
 Bibliography, p.762-782.

Rhode Island

- RHODE ISLAND—Geological and agricultural survey.
 Report on the geological and agricultural survey of the state of Rhode-Island, made under a resolve of legislature in 1839, by C. T. Jackson. 1840.....r557.45 R38

New York

- NEW YORK (state)—Geological survey.
 Annual report (2d, 4th) of the first geological district of the state of New York, 1837, 1839, by W. W. Mather. (In its Reports relative to the geological survey, 1837, 1839.).....r557.47 N26
 A later and more complete report of this district will be found in v.9 of the Natural history of New York, (qr570.9747 N26).
 The first geological district of New York consisted of the counties of Suffolk, Queens, Kings, Richmond, New York, Westchester, Rockland, Putnam, Dutchess, Orange, Sullivan, Delaware, Ulster, Greene, Columbia, Rensselaer, Albany, Schoharie, Schenectady, Saratoga and Washington, containing an area of 12,263 square miles.
 Annual report (2d, 4th) of the survey of the second geological district, by E. Emmons, 1837, 1839. (In its Re-

ports relative to the geological survey, 1837, 1839.) . . . r557.47 N26

A later and more complete report of this district will be found in v.9 of the Natural history of New York, (qr570.9747 N26).

The second geological district of New York consisted of the counties of Warren, Essex, Franklin, Clinton, Hamilton, Jefferson and St. Lawrence, making 10,817 square miles.

Annual report (2d, 4th) of the geological survey of the third district, by Lardner Vanuxem, 1837, 1839. (In its Reports relative to the geological survey, 1837, 1839.) . . . r557.47 N26

Title of the second report reads, "Second annual report of so much of the geological survey of the third district of the state of New York as relates to objects of immediate utility."

A later and more complete report of this district will be found in v.9 of the Natural history of New York, (qr570.9747 N26).

The third geological district comprised the counties of Fulton, Montgomery, Herkimer, Oneida, Lewis, Oswego, Madison, Onondaga, Cayuga, Wayne, Ontario, Monroe, Orleans, Genesee and Livingston, making 11,468 square miles.

Annual report (2d, 4th) of the survey of the fourth district, by James Hall, 1837, 1839. (In its Reports relative to the geological survey, 1837, 1839.) . . . r557.47 N26

A later and more complete report of this district will be found in v.9 of the Natural history of New York, (qr570.9747 N26).

The fourth district consisted of the counties of Otsego, Chenango, Broome, Tioga, Chemung, Cortland, Tompkins, Seneca, Yates, Steuben, Allegany, Cattaraugus, Chautauqua, Erie and Niagara, embracing an area of 11,594 square miles.

The third and fourth districts were afterward reorganized, making all the counties to the west of Cayuga lake, and a line drawn north and south from its two extremities, the fourth district, which contained 11,060 square miles.

NEW YORK (state)—Geologist.

Report (7th—date) of the state geologist to the regents, for the year 1887—date. 1888—date. (In New York (state)—Museum. Annual report, 1887—date.) . . . qr507 N26

Reports (1st—20th), 1881—1900, are indexed in Bulletin no.66 of the New York state museum, qr507 N26b.

Until 1898 the reports of the state geologist contained the reports of the paleontologic work. The geologist originated from the commission of 1837 on the geological survey and the title of paleontologist was added in 1843. For the early reports, see Annual reports of the geological districts (r557.47 N26), and v.9—12 of the Natural history of New York (qr570.9747 N26).

Pennsylvania

PENNSYLVANIA—Committee on a geological and mineralogical survey of the state.

Report read in the House of representatives, Feb. 3, 1836. 1836. r557.48 P39
Bound with other pamphlets.

PENNSYLVANIA—Geological survey. (1st survey.)

Annual report (1st—6th), on the geological survey, by H. D. Rogers, state geologist, made to the legislature, 1836—41. 1836—42. r557.48 P39

"At the time of the organization of the Survey, it was estimated that it would occupy at least ten years; but the financial embarrassments of the Commonwealth made it expedient to withhold further appropriations after the sixth year, and to bring the Survey abruptly to a close before it could be completed in all its parts." *H. D. Rogers.*

A vast mass of material was reserved for the Final report, which, however, did not appear for seventeen years, viz in 1858, (qr557.48 P39g).

Geology of Pennsylvania; a government survey by H. D.

- Rogers. 2v. 1858.....qr557.48 P39g
- v.1, Book 1. Primal auroral strata of the Atlantic slope.
 Book 2. Kittatinny valley.
 Book 3. Stroudsburg.—Orwigsburg valley.
 Book 4. Northeastern district.
 Book 5. Lower Juniata district.
 Book 6. Upper Juniata district.
 Book 7. Seventh district in the northwest corner of the state.
 v.2, Book 8. Anthracite coal region.
 Book 9. Bituminous coal fields.
- This is the Final report of the first geological survey. It could not be published until 1858 because of lack of funds.
 "The first survey of Pennsylvania may be truly said to close in 1851. All [work] between that and the appearance of the Final report in 1858 was of superficial revision in the field, and editorial labor in the cabinet." *J. P. Lesley, 1876.*
- PENNSYLVANIA—Geological survey. (2d survey.)
- Annual report, 1885-1887. 3v. in 9. 1886-89.....r557.48 P39g
- The same.* 1886. v.2. 1887557.48 P39g
- Final report; a summary description of the geology of Pennsylvania, with index. 4v. in 6. 1892-95.....r557.48 P39gf
- v.1. Description of the Laurentian, Huronian, Cambrian and lower silurian formations.
 v.2. Description of the upper silurian and Devonian formations.
 v.3, pt.1. Description of the carboniferous formation.
 v.3, pt.2. Description of the bituminous coal fields.
 v.4, pt.1. Atlas to final report.
 v.4, pt.2. Index to final report.
- The same.* v.1. 1892557.48 P39gf
- "The accuracy of the statements of the geologists [of the First survey] whose reports are condensed and consolidated in the final report of Prof. H. D. Rogers, published in 1858, is a matter of frequent remark and admiration. Yet the First survey was essentially a reconnaissance. Those engaged in it thirty years ago worked chiefly without instruments of precision and under the greatest inconvenience. Their views were broad, their isolated observations numerous and exact, but their districts never were accurately surveyed by them, nor could be. The second survey is intended to supply this lack; to take up their work where they left off; to reduce their general statements to precision; to measure, where they could only estimate; to define, what they could only indicate; to demonstrate what they could see to be true, but which they could not prove and show in all its truth." *J. P. Lesley, state geologist.*
- Geological hand-atlas of the 67 counties of Pennsylvania.
 1885qr557.48 P399g
- Grand atlas. v.1-5, in 6. 1884-85.....qr557.48 P399gr
- v.1. County geological maps.
 v.2 in 2. Anthracite coal fields.
 v.3. Petroleum and bituminous coal fields.
 v.4. South Mountain and Great Valley topographical maps.
 v.5. Central and south-eastern Pennsylvania.
- A list of, and brief guide to, the publications of the Pennsylvania geological survey, 1874-1895; compiled by H. P. Miller. 1896.....r557.48 P399l
- Reports of progress, (A-Z). 107v. 1875-90.....r557.48 P399r
- For analytical contents see check list which is kept at the reference desk.
- A.v.1. History of the First geological survey of Pennsylvania, from 1836 to 1858, by J. P. Lesley.
 A2. v.2. Report on the causes, kinds and amount of waste in mining anthracite coal, by F. Platt.
 AC. v.3-4. Report on mining methods, with atlas.
 AA. v.5-27. Report of progress of the anthracite survey, with atlases.
 B. v.28-29. Report on the minerals.
 C. v.30-37. Reports on counties.
 D. v.38-44. Reports on counties.
 E. v.45. Trap dykes and azoic rocks of south east Pennsylvania.
 F. v.46-49. Report on Juniata river district.

- G. v.50-56. Reports on counties.
 H. v.57-64. Reports on counties.
 I. v.65-70. Reports on various oil regions.
 J. v.71. Report on the oil region, by H. E. Wrigley.
 K. v.72-75. Report on Fayette and Westmoreland counties and on Monongahela river coal mines.
 L. v.76. Report on the Youghiogheny coke manufacture, by F. Platt.
 M. v.77-79. Report of chemical analyses, 1874-80.
 N. v.80. Report on the levels above tide of railroads, canals, etc., by C. Allen.
 O. v.81-83. Catalogue of specimens collected by the survey.
 P. v.84-91. Report on the coal flora and Dictionary of fossils found in Pennsylvania.
 Q. v.92-95. Reports on counties.
 R. v.96-99. Reports on counties.
 T. v.100-104. Reports on counties.
 V. v.105-106. Reports on counties.
 X. v.107. Geological hand atlas of the sixty-seven counties of Pennsylvania.
 Z. v.108. Report on the terminal moraine across Pennsylvania.
 D4, S and Y were never published.
The same, (AC, I3, I5). v.3-4, 67-68, 70. 1883-90.....557.48 P399r
 LESLEY, John Peter.
 Geology of the Pittsburgh coal region. 1886.....r557.488 L64

New Jersey

- NEW JERSEY—Geological survey. (1st survey.)
 Description of the geology of New Jersey; a final report,
 by H. D. Rogers. 1840.....r557.49 N26
 NEW JERSEY—Geological survey. (2d survey.)
 Annual report (2d), for the year 1855. 1856.....r557.49 N26a
 NEW JERSEY—Geological survey. (3d survey.)
 Annual report (19th-date), of the state geologist, 1882-
 date. 1882-date.....r557.49 N26an
 pt.2 of the report for 1899, which is a report on forests, is catalogued
 separately, r634.9 N26; Appendix to the report for 1902 is
 also catalogued separately, r562 W48.
 Final report of the state geologist. 5v. in 7. 1888-
 1902.qr557.49 N26f
 v.1. Geodetic survey, by E. A. Bowser.—Physical description, by C. C.
 Vermeule.—Population.—Bench-marks.—Magnetic survey.—Clim-
 atology, by J. C. Smock.
 v.2 in 2. Catalogue of minerals found in New Jersey, by F. A. Can-
 field.—Catalogue of plants, by N. L. Britton.—Catalogue of insects,
 by J. B. Smith.—Catalogue of vertebrates, by Julius Nelson.
 v.3. Report on the water supply, by C. C. Vermeule.
 v.4. Physical geography of New Jersey, by R. D. Salisbury.—Appen-
 dix, by C. C. Vermeule.
 v.4, pt.2. Relief map of New Jersey, by J. C. Smock and C. C. Vermeule.
 v.5. The glacial geology of New Jersey, by R. D. Salisbury and others.
 Geology of New Jersey, by G. H. Cook. 1868.....qr557.49 N26g
Contents: Introduction.—DETAILED GEOLOGY: Azoic formation.—Paleo-
 zoic formation.—Triassic formation.—Cretaceous formation.—Tertiary
 and recent formations.—Historic geology.—ECONOMIC GEOLOGY: Fertil-
 izers.—Building materials.—Ores.—Manufacturers' materials and use-
 ful products.
 This is the Final report.
 NEW JERSEY—Geological survey. (2d survey.)
 Geology of the county of Cape May, by G. H. Cook.
 1857r557.499 N26
Contents: Physical and geological description.—Economic geology.—
 Catalogues of zoological and botanical productions of the county of
 Cape May.—Sketch of the early history of the county of Cape May.

Maryland

MARYLAND—Geological survey.

[Report.] v.1—date. 1897—date.....qr557.52 M43

v.1. Introduction, by W. B. Clark.—Historical sketch, embracing an account of the progress of investigation concerning the physical features and natural resources of Maryland, by W. B. Clark.—Outline of present knowledge of the physical features of Maryland, by W. B. Crane.—Bibliography and cartography of Maryland, by E. B. Mathews.—First report upon magnetic work in Maryland, by L. A. Bauer.

v.2. Administrative report, by W. B. Clark.—The building and decorative stones of Maryland, by G. P. Merrill and E. B. Mathews.—Report on the cartography of Maryland, by Henry Gannett and E. B. Mathews.

v.3. Introduction, including an account of the organization of highway investigations by the Maryland geological survey, by W. B. Clark.—The relations of Maryland topography, climate and geology to highway construction, by W. B. Clark.—Highway legislation in Maryland, and its influence on the economic development of the state, by St. G. L. Sioussat.—The present condition of Maryland highways, by A. N. Johnson.—Construction and repair of roads, by A. N. Johnson.—Qualities of good road-metals and the methods of testing them, by H. F. Reid.—The administration of roads, including the method and expense of road improvements, by H. F. Reid.—The advantages of good roads, by H. F. Reid.

v.4. Paleozoic Appalachia, or the history of Maryland during paleozoic time, by Bailey Willis.—Second report on the highways of Maryland, by H. F. Reid and A. N. Johnson.—Report on the clays of Maryland, by Heinrich Ries.

[Report on county resources.] [v.1—3.] 1900—1902....qr557.52 M43r

[v.1.] Allegany county, with atlas.

[v.2.] Cecil county, with atlas.

[v.3.] Garrett county, with atlas.

Each volume contains a bibliography of references to the geology of the county described.

[Reports on the systematic geology and paleontology of

Maryland.] v.1. 1901.....qr557.52 M43re

v.1. Eocene.

Virginia. West Virginia

WEST VIRGINIA—Geological survey.

Bulletin. no.1—date. 1901—date.....r557.54 W56b

no.1. A bibliography of works upon the geology and natural resources of West Virginia, 1764—1901, and also A cartography of West Virginia, 1737—1901, comp. by S. B. Brown.

Report, 1897—date. v.1—date. 1899—date.....r557.54 W56

v.1. Report of Geological commission.—Levels above tide, by I. C. White.—Variation of the magnetic compass, by R. U. Goode.—Petroleum and natural gas, by I. C. White.

v.2. Levels above tide, true meridians, etc., by I. C. White.—Appalachian coal field, by I. C. White.

BOYD, Charles R.

Resources of south-west Virginia, showing the deposits of iron, coal, zinc, copper and lead. 1881.....557.55 B66

The same. 1881.....r557.55 B66

CAMPBELL, John Lyle, 1818—86.

Geology and mineral resources of the James river valley, Virginia. 1882.....r557.55 C15

McCREATH, Andrew S. & D'Invilliers, E. V.

Geological and chemical report on a portion of the Virginia and Tennessee coal and iron company's property; embracing about 15,000 acres along the Clinch valley

- division of the Norfolk & Western R. R., Wise county,
Va. 1892.....r557-55 M14g
- ROGERS, William Barton.
Reprint of annual reports and other papers on the geology
of the Virginias, [ed. by Emma Rogers]. 1884.....r557-55 R61
- Contents:* Annual reports of progress of the geological survey for 1835-
41.—Physical structure of the Appalachian chain.—Artesian borings at
Fortress Monroe.—Age of the coal rocks of eastern Virginia.—Observa-
tions on the natural coke of the oölite coal region in the vicinity of
Richmond.—Gravel and cobble-stone deposits of Virginia and the Middle
states.—Notes from Macfarlane's Geological railway guide, 1879.—
Analysis of waters of the principal mineral springs of Virginia.—Re-
port on the Pridevale coal and iron ore, West Virginia.—Subterranean
temperature in the coal mines of eastern Virginia.—Contributions to
the geology of the tertiary formations of Virginia.—Some observa-
tions on the tertiary marl of lower Virginia.—Connection of thermal
springs in Virginia with anticlinal axes and faults.
- The VIRGINIAS; a mining, industrial and scientific journal,
devoted to the development of Virginia and West Vir-
ginia; monthly. v.1-4. 1880-83.....qr557-55 V34

North Carolina. South Carolina

- NORTH CAROLINA—Geological survey.
Bulletin. no.1, 6, 8-11, 13-date. 1893-date.....r557-56 N45b
- no.1. Iron ores of North Carolina, by H. B. C. Nitze.
no.6. Timber trees and forests of North Carolina, by Gifford Pinchot
and W. W. Ashe.
no.8. Papers on the waterpower of North Carolina, by G. F. Swain and
others.
no.9. Monazite and monazite deposits in North Carolina, by H. B. C.
Nitze.
no.10. Gold mining in North Carolina and adjacent Appalachian
regions, by H. B. C. Nitze and H. A. J. Wilkens.
no.11. Corundum and the basic magnesian rocks of western North
Carolina, by J. V. Lewis.
no.13. Clay deposits and clay industry in North Carolina, by Heinrich
Ries.
- Report of the geological survey, 1875, by W. C. Kerr, state
geologist. v.1. 1875.....qr557-56 N45
- SOUTH CAROLINA—Agricultural and geological survey.
Report on the geology of South Carolina, by Michael
Tuomey. 1848.....qr557-57 S7a

Georgia

- GEORGIA—Geological survey.
Administrative report of the state geologist, for the year
ending Oct. 1894-1900. 1894-1900.....r557-58 G31a
- The report for 1894/95 was not issued but the report printed in 1896
covers the period from Oct. 24, 1894 to Oct. 15, 1896.
- Bulletin. no.1-2; no.3-A; no.4-A; no.5-A; no.6-A; no.7;
no.8; no.9-A; no.10-A. 1894-1902.....qr557-58 G31
- no.1. McCallie, S. W. Preliminary report on the marbles of Georgia.
no.2. King, F. P. Preliminary report on the corundum deposits of
Georgia.
no.3-A. Hall, B. M. comp. Preliminary report on a part of the water-
powers of Georgia.
no.4-A. Yeates, W. S. and others. Preliminary report on a part of
the gold deposits of Georgia.
no.5-A. McCallie, S. W. Preliminary report on a part of the phos-
phates and marls of Georgia.

- no.6—A. Ladd, G. E. Preliminary report on a part of the clays of Georgia.
 no.7. McCallie, S. W. Preliminary report on the artesian-well system of Georgia.
 no.8. McCallie, S. W. Preliminary report on roads and road-building materials of Georgia.
 no.9—A. Watson, T. L. Preliminary report on a part of the granites and gneisses of Georgia.
 no.10—A. McCallie, S. W. Preliminary report on a part of the iron ores of Georgia; Polk, Bartow and Floyd counties.

Paleozoic group; the geology of ten counties of northwestern Georgia, by J. W. Spencer. 1893.....r557.58 G31p
 Bibliography of Georgia geology, p.365-367.

Alabama

ALABAMA—Geological survey.

- Bulletin. v.5, no.1. 1887.....qr557.61 A31bu
 no.1. Herrick, C. L. List of the fresh-water and marine crustacea of Alabama.
 It was originally intended to publish the final reports of the survey under several different heads of which v.5 was Botany and zoology. It was found impossible to carry out this plan, but Herrick's List of crustacea was printed while the officials of the survey still had this intention.
 Bulletin. no.2, 4-7. 1892-1903.....r557.61 A31b
 no.2. Smith, E.A. Phosphates and marls of Alabama.
 no.4-6. Hayes, C.W. Report on the geology of north-eastern Alabama and adjacent portions of Georgia and Tennessee.—Brewer, W. M. and others. Preliminary report on the upper gold belt of Alabama; with supplementary notes on the most important varieties of the crystalline or metamorphic rocks of Alabama.—Ries, Heinrich. Preliminary report on the clays of Alabama.
 no.7. Hall, B. M. Preliminary report on a part of the water powers of Alabama.
 Report on the Cahaba coal field, by Joseph Squire, with an appendix on the geology of the valley regions adjacent to the Cahaba field, by E. A. Smith, with map. 1890..r557.61 A31rep
 Report on the geological structure of Murphree's valley, and its minerals and other materials of economic value, by A. M. Gibson. 1893.....r557.61 A31re
 Report on the geology of the coastal plain of Alabama, by E. A. Smith and others; with contributions to its paleontology, by T. H. Aldrich and K. M. Cunningham. 1894.....r557.61 A31r
 Report on the valley regions of Alabama (paleozoic strata), by Henry McCalley. 2pts. 1896-97.....r557.61 A31
 pt.1. On the Tennessee valley region.
 pt.2. On the Coosa valley region.
 Reports of progress for the years 1874-1876. 3v. 1875-76r557.61 A31rg

Mississippi

MISSISSIPPI—Agricultural and geological survey.

- Preliminary report on the geology and agriculture of the state of Mississippi, by L. Harper, state geologist. 1857r557.62 M74p
 Being the second report of the survey.
 Report on the agriculture and geology of Mississippi, embracing a sketch of the social and natural history,

by B. L. C. Wailes, geologist of Mississippi. 1854...r557.62 M74

Contents: Historical outline. — Land titles. — Agriculture. — Geology. — Fauna.—Flora.

First report of the Agricultural and geological survey of Mississippi.

Report on the geology and agriculture of the state of Mississippi, by E. W. Hilgard, state geologist. 1860...r557.62 M74r
Being the fourth report of the survey.

Louisiana

LOUISIANA—State university and agricultural and mechanical college. Experiment stations office.

Geology and agriculture. pt.3-6. 1896-1902.....r557.63 L92

pt.3-4. A preliminary report upon the Florida parishes of East Louisiana and the bluff, prairie and hill lands of southwest Louisiana, by W. W. Clendenin.—A preliminary report upon the bluff and Mississippi alluvial lands of Louisiana, by W. W. Clendenin.

pt.5. A preliminary report on the geology of Louisiana; Historical review; General geology, by G. D. Harris and A. C. Veatch.—The Natchitoches area, by G. D. Harris.—The Shreveport area, by A. C. Veatch.—The Five Islands, by A. C. Veatch.—A report on Louisiana clay samples, by H. Ries.—A report on a collection of fossil plants from northwestern Louisiana, by Arthur Hollick.—The cretaceous and lower eocene faunas of Louisiana, by G. D. Harris.—Establishment of meridian lines by G. D. Harris.—A few notes on road making, by G. D. Harris.—Some wood-destroying fungi, by G. F. Atkinson.

pt.6. The tertiary geology of the Mississippi embayment, by G. D. Harris.—The salines of north Louisiana, by A. C. Veatch.—The geography and geology of the Sabine river, by A. C. Veatch.—Notes on the geology along the Ouachita, by A. C. Veatch.—Improvements in Louisiana cartography, by G. D. Harris.—The subterranean waters of Louisiana, by G. D. Harris and J. Pacheco.—The tides in the Rigolets, by R. A. Harris.—Oil in Louisiana, by G. D. Harris.

Texas

CUMMINS, William Fletcher.

Notes on the geology of northwest Texas. 1893.....qr557.64 C91
From the 4th annual report of the Geological survey of Texas, 1892.

KENNEDY, W.

Report on Grimes, Brazos and Robertson counties, Texas.

1893.....qr557.64 C91
From the 4th annual report of the Geological survey of Texas, 1892.
Bound with Cummins' Notes on the geology of northwest Texas.

SHUMARD, George Gettz.

Partial report on the geology of western Texas, consisting of a general geological report and a journal of geological observations along the routes traveled by the expedition between Indianola, Texas, and the valley of the Mimbres, New Mexico, 1855 and 1856; with an appendix giving a detailed report on the geology of Grayson county. 1886.....r557.64 S56
Being the notes for the official report of the Texas geological survey for 1855 and 1856, which was never published.

TEXAS—Geological and mineralogical survey. (3d survey.)

Annual report (1st-3d), 1889-91. 1890-92.....qr557.64 T32
For list of accompanying papers see contents book, p.291; kept at the reference desk.

Bulletin. no.1-4, in 1. 1889-90.....r557.64 T32b
Report of progress (2d), 1891. 1892.....r557.64 T32s

Arkansas

ARKANSAS—Geological survey. (Owen survey.)

First report of a geological reconnaissance of the northern counties of Arkansas made during 1857 and 1858, by D. D. Owen. 1858.....qr557.67 A72 v.1

Second report of a geological reconnaissance of the middle and southern counties of Arkansas, made during 1859 and 1860, by D. D. Owen. 1860.....qr557.67 A72 v.2

ARKANSAS—Geological survey. (Branner survey.)

Annual report, 1887-1892. 1887-1900.....r557.67 A72a

1887. Administrative report.

1888, v.1. Administrative report.—Comstock, T.B. Report upon preliminary examination of the geology of western central Arkansas.

1888, v.2. Hill, R. T. Neozoic geology of southwestern Arkansas.—Hay, O. P. The northern limits of the mesozoic rocks in Arkansas.—

Branner, J. C. On the manufacture of Portland cement.

1888, v.3. Winslow, Arthur. The geology of the coal regions.

1888, v.4. Simonds, F. W. The geology of Washington county.—Branner, J. C. & Coville, F. V. A list of the plants of Arkansas.

1889, v.2. Call, R. E. The geology of Crowley's ridge.

1890, v.1. Penrose, R. A. F. Manganese.

1890, v.2. Williams, J. F. The igneous rocks of Arkansas.

1890, v.3. Griswold, L. S. Whetstones and the novaculites of Arkansas.

1890, v.4. Hopkins, T. C. Marbles and other limestones, with atlas.

1891, v.1. The mineral waters of Arkansas.

1891, v.2. MISCELLANEOUS REPORTS: Simonds, F. W. & Hopkins, T. C. The geology of Benton county.—Branner, J. C. Elevations in the state of Arkansas.—Branner, J. C. Observations on erosion above Little Rock.—Branner, J. C. Magnetic observations.—Sampson, F. A. The mollusca of Arkansas.—Bollman, C. H. The myriapoda of Arkansas.—Meek, S. E. The fishes of Arkansas.—Siebenthal, C. E. The geology of Dallas county.—Branner, J. C. Bibliography of the geology of Arkansas.

1892, v.1. Penrose, R. A. F. The iron deposits of Arkansas.

1892, v.2. Harris, G. D. The tertiary geology of southern Arkansas.

1892, v.5. Branner, J. C. The zinc and lead region of north Arkansas, with atlas.

Tennessee

TENNESSEE—Geological survey.

• Geology of Tennessee, by J. M. Safford. 1869.....r557.68 T29g

TENNESSEE—State geologist.

Geological report (5th) to the General assembly of Tennessee, Nov. 1839, by Gerard Troost. 1840.....r557.68 T29

Kentucky

KENTUCKY—Geological survey. (1st survey.)

Report (1st, 2d, 4th) of the geological survey in Kentucky made during 1854-1857, and 1858-1859, by D. D.

Owen. 1856-61.....qr557.69 K19

KENTUCKY—Geological survey. (2d survey.)

Chemical analyses, A. v.1, 3. 1884-88.....qr557.69 K193

v.1. 1st-3d chemical report.—Chemical analyses of the hemp and buckwheat plants.

v.3. 7th chemical report.

Part of a new edition of the Reports of progress, in which the articles are rearranged so as to bring into one series all reports relating to a given subject or locality.

- Report on the geological and economic features of the Jackson's purchase region, by R. H. Loughridge. 1888..qr557.69 K193r
- Report on the occurrence of petroleum, natural gas and asphalt rock in western Kentucky; based on examinations made in 1888 and 1889, by Edward Orton. 1891..qr557.69 K193rep
- Reports of progress; N. S. Shaler, director. v.1, 3, 5. 1876-80.qr557.69 K193re
- Issued biennially; called "new series," as continuation of Owen's survey.
- v.1. Report on the timber growth of Greenup, Carter, Boyd and Lawrence counties in eastern Kentucky, by N. S. Shaler and A. R. Crandall.—Report of the botany of Barren and Edmonson counties, by John Hussey.—Report on the iron ores of Greenup, Boyd and Carter counties, the Kentucky division of the Hanging Rock iron region, by P. N. Moore.—Chemical report of the soils, clays, ores, mineral waters, &c. of Kentucky, by Robert Peter and J. H. Talbutt.—The iron manufacture of the Kentucky division of the Rock iron region, by P. N. Moore.—Report on the geology of the region adjacent to the Louisville, Paducah and Southwestern railroad, with a section, by C. J. Norwood.—Report of a reconnaissance in the lead region of Livingston, Crittenden and Caldwell counties, including a sketch of their general wealth, by C. J. Norwood.
- v.3. General report of the geological survey of Kentucky, by N. S. Shaler.—History of the operations of the survey in 1874 and 1875, by N. S. Shaler.—Notes on the investigations of the Kentucky geological survey during the years 1873, 1874 and 1875, by N. S. Shaler.—Annual report of N. S. Shaler for the year 1876.—The transportation routes of Kentucky and their relation to the economic resources of the commonwealth, by N. S. Shaler.—Description of the preliminary topographical and geological maps of Kentucky, edition of 1876, by N. S. Shaler.—Annual report of N. S. Shaler, state geologist, for the year 1877.—Report on the unfinished work of the survey under the direction of D. D. Owen, by N. S. Shaler.
- v.5. Description of the topography of the area within the reconnaissance triangulation of the United States coast and geodetic survey in Kentucky, 1875-1876, by W. B. Page.—Topographical report of a part of Greenup and Lawrence counties, 1874, by C. Schenk.—On the use of the telemeter in topographical surveys, by C. Schenk.—Report on the timbers of the tradewater region, by L. H. DeFries.—A general account of the geology of a part of Ohio county, by C. J. Norwood.—Report on the timbers of the district west of the Tennessee river, commonly known as the "Purchase district," by L. H. DeFries.—Third chemical report on the soils, clays, ores, mineral waters, &c. of Kentucky, by Robert Peter.—Report on the limonite ores of Trigg, Lyon and Caldwell counties, known as the "Cumberland river ores," by W. B. Caldwell.—Iron, the impurities which commonly occur with it, and their effects, by W. B. Caldwell.—Report on a belt of Kentucky timbers extending east and west from Columbus to Pound Gap, by L. H. DeFries.—Report on the timbers of Boyle and Mercer counties, by W. M. Linney.—Report on the Chinn's Branch cannel coal district, by A. R. Crandall.—Fourth chemical report of the soils, clays, ores, mineral waters, &c. of Kentucky, by Robert Peter.

Ohio

- OHIO—Geological survey. (1st survey.)
- Annual report (2d) of W. W. Mather, principal geologist, 1838. [1839.].....r557.71 O18a
- OHIO—Geological survey. (2d survey.)
- Geological atlas of Ohio; prepared by J. S. Newberry and others. 1879.....qr557.71 O18
- Report of progress, 1869-1870. v.1-2. 1871.....r557.71 O18r

- v.1. Sketch of the progress of the geological survey in 1869, by J. S. Newberry.—Report on the Straitsville coal field, by E. B. Andrews.—Report on the geology of Montgomery county, by Edward Orton.
- v.2. Sketch of the structure of the lower coal measures in northeastern Ohio, by J. S. Newberry.—Report of labors in the 2d geological district during 1870, by E. B. Andrews.—The geology of Highland county, by Edward Orton.—Agricultural survey, by J. H. Klippart.—Report of the chemical department, by T. G. Wormley.—Sketches of the geology of Geauga and Holmes counties, by M. C. Read. — Report on the geology of Williams, Fulton and Lucas counties, by G. K. Gilbert.—Sketch of the present state of the iron manufacture in Great Britain, by W. B. Potter.—Sketch of the present state of the steel industry, by Henry Newton.

Report, with maps. 7v. in 11. 1873-93.....qr557.71 O18re

Contents: Geology, v.1, pt.1; v.2, pt.1; v.3, pt.1; v.7, pt.2.—Palæontology, v.1, pt.2; v.2, pt.2; v.7, pt.2.—Zoology, v.4, pt.1.—Economic geology, v.5-6; v.7, pt.1.

v.3, pt.2, v.4, pt.2 were never published, but material prepared for these volumes appeared in v.7, which was issued by the 3d survey.

Maps accompany v.1-2.

OHIO—Geological survey. (3d survey.)

Annual report (1st), 1890. 1890.....r557.71 O18an

1st report was made by Edward Orton, state geologist. The material gathered for the 2d report of this survey, together with certain other chapters, was published under the title "Geology of Ohio," v.7, in 1893.

Indiana. Illinois

INDIANA—Geology and natural resources department.

Annual report (1st-date), 1869-date. 1869-date.....r557.72 I24

For partial contents see contents book, p.197; kept at the reference desk. 1st-10th reports (7 volumes text, 2 volumes maps), 1869-1878, were issued by the Geological survey, E. T. Cox, state geologist. 3d-4th reports and 8th-10th, were issued as single volumes.

Reports for 1879-1880 are included in the 2d annual report of the Department of statistics and geology, r317.7 I24 v.2.

11th-16th reports, 1881-1888, were issued by the Department of geology and natural history. 15th report covers the years 1885 and 1886. 16th report is for the year 1888. 17th report is for the year 1891, 18th for 1893, after which date reports have been issued each year.

By act of Feb. 26, 1889 the offices of Mine inspector and Oil inspector were abolished and the Department of geology and natural resources, consisting of four divisions, Geology and natural science, Mines and mining, Mineral oils, Natural gas, was created.

ILLINOIS—Geological survey.

Abstract of a report on Illinois coals, with descriptions and analyses and a general notice of the coal fields, by J. G.

Norwood. 1857.....r557.73 I22a

Economical geology of Illinois; reprinted from the original reports of the geological survey, with additions and emendations, by A. H. Worthen, state geologist. v.1-

2. 1882.....r557.73 I22

"Publication...provided for by act...approved May 26, 1881, [which] required...the republication, in three volumes, of all that portion of the six volumes of the original reports that related to the Economical Geology of the State."

[Report; A. H. Worthen, director.] 8v. in 9. 1866-90....qr557.73 I22r

v. 1. Geology.

v. 2. Palæontology.

v.3-8. Geology and palæontology.

v.8 is in 2 parts, pt.2 consisting of plates.

v.8 contains a sketch of A. H. Worthen and a general index to the report.

LEVERETT, Frank.

Illinois glacial lobe. 1899. (United States—Geological survey. Monographs.).....qr557.73 L66

Michigan

CLEMENTS, Julius Morgan, & Smyth, H.L.

Crystal Falls iron-bearing district of Michigan; with a chapter on the Sturgeon river tongue, by W. S. Bayley. 1899. (United States—Geological survey. Monographs.)...qr557.74 C56

FOSTER, John Wells, & Whitney, J.D.

Report on the geology and topography of a portion of the Lake Superior land district in the state of Michigan. pt.1. 1850. (United States. 31st cong. 1st sess. House. Ex. doc. no.69.).....r557.74 F81
pt.1. Copper lands.

MICHIGAN—Geological survey board.

Geological survey of Michigan, 1869–date. v.1–date. 1873–date.qr557.74 M66
v.1. Upper peninsula, 1869–1873; Iron-bearing rocks (economic), by T. B. Brooks.—Copper-bearing rocks, by Raphael Pumpelly.—Palaeozoic rocks, by C. Rominger.
v.1a. Atlas to accompany Iron-bearing rocks (economic), by T. B. Brooks.
v.2. Upper peninsula, 1869–1873; Appendices to v.1, pt.1, Iron-bearing rocks (economic), by T. B. Brooks.
v.3. Lower peninsula, 1873–1876; pt.1. Geology, pt.2. Palæontology, by C. Rominger.
v.4. Upper peninsula, 1878–1880; Marquette iron region, by C. Rominger.—Menominee iron region, by C. Rominger.
v.5. Upper peninsula, 1881–1884; iron and copper regions, by C. Rominger.—Lower peninsula, 1885–1893; deep borings, by C. E. Wright and others.
v.6. Upper peninsula, 1893–1897; Isle Royale, by A. C. Lane.—Keweenaw Point, with particular reference to the felsites and their associated rocks, by L. C. Hubbard.—The crystallization of the calcite from the copper mines of Lake Superior, by Charles Palache.
v.7. Lower peninsula, 1896–1900; Monroe county, by W. H. Sherzer.—Huron county, by A. C. Lane.—Sanilac county, by C. H. Gordon.
v.8. Clays and shales of Michigan; their properties and uses, by Heinrich Ries.—Coal of Michigan; its mode of occurrence and quality, by A. C. Lane.—Marl (bog lime) and its application to the manufacture of Portland cement, by D. J. Hale and others.

Report of the state board of geological survey of Michigan for the year 1899–1902; being the annual report (1st–4th) of the state geologist, 1899–1902. 1900–03.....qr557.74 M66r

MICHIGAN—Geologist.

Annual report (2d, 4th), [for the year ending Feb. 1, 1839, 1841]. 1839–[41].....r557.74 M668
2d and 4th reports were presented by Douglas Houghton, state geologist.
2d Report: Geology, by Douglas Houghton.—Zoology, by Abram Sager.—Botany, by John Wright.—Topography, by S. W. Higgins.—Geology of Eaton, Ingham and Jackson counties, by C. C. Douglas.—Geology of Wayne and Monroe counties, by Bela Hubbard.
4TH REPORT: Topography, geology and mineralogy of the country bordering on Lake Superior, by Douglas Houghton.—Latitudes and magnetic variations, by Frederick Hubbard.—Geology, by C. C. Douglas.—Geology, by Bela Hubbard.—Topography, by S. W. Higgins.

First biennial report of the progress of the geological survey of Michigan embracing observations on the geology, zoology and botany of the lower peninsula, [by A. Winchell], 1859–1860. 1861.....qr557.74 M668f
pt.1. Geology.

- pt.2. Zoölogy.
pt.3. Botany.

SHEPHERD, Forrest.

Geological survey of the mineral lands on the southern shore of Lake Superior belonging to the Pittsburgh and Boston copper harbor mining company; also a Report of the analysis of the various ores found thereon, by B. Silliman. 1846.....r622.33 W66
Bound with Whittlesey's Dissertation upon the origin of mineral coal.

VAN HISE, Charles Richard, & Bayley, W.S.

The Marquette iron-bearing district of Michigan, with atlas, including a chapter on the Republic trough, by H. L. Smyth. 2v. 1896-97. (United States—Geological survey. Monographs.)qr557.74 V19
v.1. Text. v.2. Atlas.
"Geological explorations and literature," by W. S. Bayley, v.1, p.5-148.

Wisconsin

FEATHERSTONHAUGH, George William.

Report of a geological reconnoissance, 1835, by Green Bay and Wisconsin to the Coteau de Prairie. 1836...r557.68 T29 v.5
A report of the United States geologist to the Topographical bureau.
Bound with Tennessee—State geologist. Geological report.

OWEN, David Dale.

Letter of the secretary of the treasury, communicating a report of a geological reconnoissance of the Chippewa land district of Wisconsin and the northern part of Iowa, by David Dale Owen. 1848. (United States. 30th cong. 1st sess. Senate. Ex. doc. no.57.).....qr557.75 O34

WISCONSIN—Geological and natural history survey.

Biennial report (1st-date) of the commissioners, for the two years ending Dec. 31, 1898—date. 1899—date....r557.75 W81b

Bulletin. v.1—date. 1898—date.....r557.75 W81bu

v.1-3. Roth, Filibert. On the forestry conditions of northern Wisconsin.—Peckham, G. W. & E. G. On the instincts and habits of the solitary wasps.—Weidman, Samuel. A contribution to the geology of the pre-Cambrian igneous rocks of the Fox river valley, Wisconsin.

v.4. Buckley, E. R. On the building and ornamental stones of Wisconsin.

v.5. Salisbury, R. D. & Atwood, W. W. Geography of the region about Devil's lake and the Dalles of the Wisconsin.

v.6. Grant, U. S. Preliminary report on the copper-bearing rocks of Douglas county, Wis.

v.7, pt.1. Buckley, E. R. Clays and clay industries of Wisconsin.

v.8. Fenneman, N. M. On the lakes of southeastern Wisconsin.

v.9. Grant, U. S. Preliminary report on the lead and zinc deposits of southwestern Wisconsin.

v.10. Buckley, E. R. Highway construction in Wisconsin.

Hydrographic maps. no.1-10. 1898-1901.....r557.75 W81h

- no.1. Lake Geneva.
- no.2. Elkhart lake.
- no.3. Lake Beulah.
- no.4. Oconomowoc-Waukesha lake district.
- no.5. Chain-o'-lakes, Waupaca co.
- no.6. Delavan and Lauderdale lakes.
- no.7. Green lake.
- no.8. Lake Mendota.
- no.9. Big Cedar lake.
- no.10. Lake Monona.

WISCONSIN—Geological survey.

Annual report (1st), 1853. 1854.....r557.75 W81

Geology of Wisconsin, survey of 1873-79. v.1, 3-4. 1880-

83.qr557.75 W81g

Being the final report of the Geological survey.

v.1. General geology.—Natural history.—Industrial resources.

v.3. The Lake Superior region.—Keweenaw rocks.—Eastern Lake Superior district.—Huronian belt west of Penokee Gap.—Western Lake Superior district.—Upper St. Croix district.—Menominee iron region.—Menominee iron region (economic and supplementary).

v.4. The upper Mississippi region.—The lower St. Croix region.—Description of fossils.—Ore deposits of southwestern Wisconsin.—Quartzite of Barron and Chippewa counties.—The Flambeau region.—Crystalline rocks of the Wisconsin valley.—Superficial geology of the upper Wisconsin valley.—Character and methods of the Geodetic survey.

Minnesota

MINNESOTA—Geological and natural history survey.

Annual report (1st-4th, 6th, 9th-24th), 1872-1875, 1877,

1880-1898. 1875-99.....r557.76 M72a

24th (and final) annual report includes reports 1895-98 and contains a general index to the Annual reports (1st-24th), p.179-284.

Bulletin. v.1-10. 1889-98.....r557.76 M72b

v.1. Winchell, N. H. History of geological surveys in Minnesota.

v.2. Wadsworth, M. E. Preliminary description of the peridotites, gabbros, diabases and andesytes of Minnesota.

v.3. Arthur, J. C. Report on botanical work in Minnesota, 1886.

v.4. Oestlund, O. W. Synopsis of the aphididæ of Minnesota.

v.5. Winchell, N. H. Natural gas in Minnesota.

v.6. Winchell, N. H. & H. V. Iron ores of Minnesota.

v.7. Herrick, C. L. Mammals of Minnesota.

v.8. Lawson, A. C. Anorthosites of the Minnesota coast of Lake Superior; The laccolitic sills of the north-west coast of Lake Superior.

v.9. Minnesota botanical studies, v.1.

v.10. Spurr, J. E. The iron-bearing rocks of the Mesabi range in Minnesota.

Geology of Minnesota; final report, 1872-1901. 6v. in 7.

1884-1901qr557.76 M72

v.1-2, 4-5. Geology. v.3, in 2. Paleontology.

v.6. Geological atlas, with synoptical descriptions by N. H. Winchell.

MINNESOTA—State geologist.

Annual report [of progress, 1865] on the metalliferous region bordering on Lake Superior, by H. H. Eames.

1866.r557.76 M727

Iowa

IOWA—Geological survey. (Survey of 1855-59.)

Report on the geological survey of Iowa, embracing the results of investigations made during the years 1855, 56 & 57, by James Hall [and] J. D. Whitney. v.1 in 2.

1858.....qr557.77 I25r

v.1, pt.1. Geology.

v.1, pt.2. Paleontology.

IOWA—Geological survey. (Survey of 1866-1869.)

Report on the geological survey of the state of Iowa, to the 13th general assembly, Jan. 1870, containing results of examinations and observations made within the years 1866, 1867, 1868 and 1869, by C. A. White. 2v. 1870..qr557.77 I25

IOWA—Geological survey. (Survey of 1892—.)

Annual report, 1892-1902. v.1-13. 1893-1903.....qr557-77 I25a

- v.1. ANNUAL REPORT, 1892: Administrative reports.—Geological formations of Iowa, by C. R. Keyes.—Cretaceous deposits of Woodbury and Plymouth counties, with observations on their economic uses, by Samuel Calvin.—Ancient lava flows in northwestern Iowa, by S. W. Beyer.—Distribution and relations of the Saint Louis limestone in Mahaska county, by H. F. Bain.—Annotated catalogue of minerals, by C. R. Keyes.—Some Niagara lime burning dolomites and dolomitic building stones of Iowa, by G. L. Houser.—Bibliography of Iowa geology, by C. R. Keyes.
- v.2. Coal deposits of Iowa, by C. R. Keyes.
- v.3. ANNUAL REPORT, 1893: Administrative reports.—Work and scope of the geological survey, by C. R. Keyes.—Cretaceous deposits of the Sioux valley, by H. F. Bain.—Certain Devonian and carboniferous outcrops in eastern Iowa, by W. H. Norton.—Geological section along Middle river in central Iowa, by J. L. Tilton.—Glacial scorings in Iowa, by C. R. Keyes.—Thickness of the paleozoic strata of north-eastern Iowa, by W. H. Norton.—Composition and origin of Iowa chalk, by Samuel Calvin.—Buried river channels in southeastern Iowa, by C. H. Gordon.—Gypsum deposits of Iowa, by C. R. Keyes.—Geology of Lee county, by C. R. Keyes.—Geology of Des Moines county, by C. R. Keyes.
- v.4. ANNUAL REPORT, 1894: Administrative reports.—Geology of Allamakee county, by Samuel Calvin.—Geology of Linn county, by W. H. Norton.—Geology of Van Buren county, by C. H. Gordon.—Geology of Keokuk county, by H. F. Bain.—Geology of Mahaska county, by H. F. Bain.—Geology of Montgomery county, by E. H. Lonsdale.
- v.5. ANNUAL REPORT, 1895: Administrative reports.—Geology of Jones county, by Samuel Calvin.—Geology of Boone county, by S. W. Beyer.—Geology of Warren county, by J. L. Tilton.—Geology of Washington county, by H. F. Bain.—Geology of Woodbury county, by H. F. Bain.—Geology of Appanoose county, by H. F. Bain.
- v.6. Lead and zinc deposits of Iowa, by A. G. Leonard.—The Sioux quartzite and certain associated rocks, by S. W. Beyer.—Artesian wells of Iowa, by W. H. Norton.—Relations of the Wisconsin and Kansan drift sheets in central Iowa and related phenomena, by H. F. Bain.
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- v.6. Botany.
- v.7. Archæology.
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"The first volume... is devoted to geography, and contains much material
of high value. App. F., vol. 1, is an account of the discovery and
exploration of the western United States from 1500 to 1880, includ-
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country. A brief abstract is given of various expeditions, with names
of leaders, dates, routes, manner of publication, etc." *Larned's Liter-
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"This is, perhaps, the best summary of the evidence now in our possession concerning the general character of Prehistoric Times. . .

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Woman's share in primitive culture. 1894. (Anthropological series.).....571.6 M45

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Attractive description of two summers' experiences in New Mexico and southern Colorado, prefaced by a short account of the discovery and development of this novel country. Fully illustrated.

NORDENSKIÖLD, Gustav.

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PIDGEON, William.

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BALDWIN, John Denison.

Pre-historic nations. 1874.....r572 B19

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HERDER, Johann Gottfried von.

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habits, pursuits, feasts & ceremonies of the races of
mankind throughout the world. 2v. [1901.].....q572 H96

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KEANE, Augustus Henry.

Ethnology. 1896.....572 K14

KEARY, Charles Francis, ed.

The dawn of history; an introduction to pre-historic study.

1898572 K15

Sums up results of prehistoric inquiry in chapters on earliest traces of man, growth of language, earliest social life, religion, writing, etc. As a study of the early growth in culture of the primeval nations of the earth, this work is important in laying the foundation to a broad course of historical study. Although profound in treatment, the style is clear and readable.

MORGAN, Lewis Henry.

- Ancient society; or, Researches in the lines of human progress from savagery through barbarism to civilization. 1878.572 M89
Contents: Growth of intelligence through inventions and discoveries.—Growth of the idea of government.—Growth of the idea of the family.—Growth of the idea of property.
 "The most important work of one of the most distinguished American ethnologists...The author is in hearty sympathy with the theory that the human race has ascended from very primitive beginnings, rather than descended from a condition of superior morality and intelligence."
C. K. Adams.

PESCHEL, Oscar.

- Races of man and their geographical distribution. 1898.572 P45
 Larger part of the book treats of the various mental and physical characteristics of mankind. The remainder gives a detailed review of the races and tribes, and contains a mass of information about tribal divisions, habits, languages, myths and migrations.
 "Although unequal in treatment, and in many respects imperfect, it exhibits much labor and research, and treats in more or less detail every branch of the...science of anthropology." *A. R. Wallace, 1876.*

RATZEL, Friedrich.

- History of mankind. 3v. 1896-98.q572 R22
The same. 3v. 1896-98.qr572 R22
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RECLUS, Élie Armand Ebenhezer.

- Primitive folk; studies in comparative ethnology. [1891.]
 (Contemporary science series.)572 R26
Contents: The Hyperboreans, hunters and fishers.—The eastern Inuits.—The western Inuits.—The Apaches, nomad hunters and brigands.—The Nairs, warrior nobility and the matriarchate.—The mountaineers of the Neigherries, herdsmen, agriculturists and woodlanders.—Todas, Badagas, Cotas, Irulas and Curumbas.—The Kolarians of Bengal and human sacrifices amongst the Khonds.

SAYCE, Archibald Henry.

- Races of the Old testament. 1891. (By-paths of Bible knowledge.)572 S27
 Short study in ethnology based largely on Mr Flinders Petrie's casts and photographs of types.

STARCKE, C.N.

- Primitive family in its origin and development. 1894. (International scientific series.)572 S79
 List of the works to which reference is made, p.301-310.
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 For a list of the accompanying papers see contents book, p.156; kept at the reference desk.
 "Series of volumes on American ethnology abundantly illustrated. Attention is given almost entirely to the natives of North America, their arts, architecture, customs, myths and rites. The object is to gather all possible information concerning our native tribes while it can be done. The sign language, pictography, burial mounds, religious rites, stone implements, etc., are described in the greatest detail. These papers are the result of original investigation and must always be one of the best sources of information on the subjects treated. Many of them are, however, far too long." *Larned's Literature of American history.*
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 no.1. Bibliography of the Eskimo language, by J. C. Pilling.
 no.4. Work in mound exploration of the Bureau of ethnology, by Cyrus Thomas.
 no.5. Bibliography of the Siouan languages, by J. C. Pilling.

- no.6. Bibliography of the Iroquoian languages, by J. C. Pilling.
- no.9. Bibliography of the Muskogean languages, by J. C. Pilling.
- no.10. Circular, square and octagonal earthworks of Ohio, by Cyrus Thomas.
- no.11. Omaha and Ponka letters, by J. O. Dorsey.
- no.12. Catalogue of prehistoric works east of the Rocky mountains, by Cyrus Thomas.
- no.13. Bibliography of the Algonquian languages, by J. C. Pilling.
- no.14. Bibliography of the Athapaskan languages, by J. C. Pilling.
- no.15. Bibliography of the Chinookan languages, by J. C. Pilling.
- no.16. Bibliography of the Salishan languages, by J. C. Pilling.
- no.17. The Pamunkey Indians of Virginia, by J. G. Pollard.
- no.18. The Maya year, by Cyrus Thomas.
- no.19. Bibliography of the Wakashan languages, by J. C. Pilling.
- no.20. Chinook texts, by Franz Boas.
- no.21. An ancient quarry in Indian Territory, by W. H. Holmes.
- no.22. Siouan tribes of the East, by James Mooney.
- no.23. Archeologic investigations in James and Potomac valleys, by Gerard Fowkes.
- no.24. List of the publications of the Bureau of ethnology with index to authors and subjects, by F. W. Hodge.
- no.26. Kathlamet texts, by Franz Boas.

572.4 Atlantis

DONNELLY, Ignatius.

Atlantis; the antediluvian world. 1882.....572.4 D72

Attempts to prove that the fabled island of Atlantis really existed, that it was the cradle of the human race and that it perished in a great convulsion of nature, a description of which has come down to us in the story of the deluge. This hypothesis he upholds with much ingenuity.

ELLIOT, W.Scott-

Story of Atlantis; a geographical, historical and ethnographical sketch. 1896572.4 E52

Atlantis, a mythical island in the Atlantic ocean, referred to by Plato and other ancient writers, is said to have disappeared with all its inhabitants in a convulsion of nature. This treatise is written by a theosophist who claims to have derived minute information about the island and its people by means of astral clairvoyance.

572.8—572.9 Special races

MUNRO, John.

Story of the British race. 1899. (Library of useful stories.)572.82 M96

Presentation for the general reader of the views of modern anthropologists, and of the results of their careful observations which have cast new light on the real nature of the British people.

MORRIS, Charles.

The Aryan race; its origin and its achievements. 1892..572.891 M91

TAYLOR, Isaac.

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STARR, Frederick.

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Races of Europe, a sociological study; Lowell institute lectures; accompanied by A supplementary bibliography of the anthropology and ethnology of Europe, published by the Public library of Boston. 2v. 1899.....572.94 R48
A description of the present living population of Europe from the stand-

- point of the physical anthropologist, showing the influence exerted upon man by his geographical environment. Aims to give scientific data respecting the origin and migrations of European peoples.
- SERGI, Giuseppe.
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- ROTH, Henry Ling, and others.
Aborigines of Tasmania. 1899.....q572.994 R75
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573 Natural history of man

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L'espèce humaine. 1879.....r573 Q21
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HUXLEY, Thomas Henry.

Man's place in nature, and other anthropological essays.

1894573.1 H98

Other essays: The methods and results of ethnology.—Some fixed points in British ethnology.—The Aryan question.

DUNCAN, W.S.

Fossil antecedents of man, and Where to discover them.

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"Where to discover the fossil antecedents of man" is reprinted from the Anthropological journal for May 1883.

LAING, Samuel.

Human origins. 1900.....573.2 L16

Inquiry, written for the unscientific reader, as to what history and geology, examined in the light of modern research, really teach concerning the origin and evolution of the human race.

LYELL, Sir Charles.

Geological evidences of the antiquity of man; with an outline of glacial and post-tertiary geology and remarks on the origin of species, with special reference to man's first appearance on the earth. 1873.....r573.3 L98

MACLEAN, John Patterson.

Manual of the antiquity of man. 1887.....573.3 M19

MERCER, Henry Chapman.

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Considers the races of mankind as having a common origin, but as specialized through their geographic environment. Similarities of religion, language, folk-lore and physical characteristics show their interrelation.

SHALER, Nathaniel Southgate.

Nature and man in America. 1891.....573.4 S52

Eight readable and descriptive chapters on the influence of environment on organic life; the first four show how the "whips of necessity" have driven organisms up and on toward higher planes; the second half treats of the geographic influence on man in America. Gives latest views on the effects of geologic changes, physical conditions, and geographic features, on the successive characteristics of Indians and of colonial settlements, and on the distribution and development of American nationality. In pleasing colloquial style. No illustrations. Adapted to the general reader. May be read as intermediate in scope between the author's "Story of our continent" and "Aspects of the earth."

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Syllabus of lectures on the evidences and factors of organic evolution, by E. G. Conklin. 1898. (University extension lectures.) r575 A51
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BONAVIA, Emmanuel.

Studies in the evolution of animals. 1895.....575 B61
Confined mostly to the origin of the markings and coloration of the jaguar, leopard, cat and other animals. Many excellent illustrations.

BROOKLYN ETHICAL ASSOCIATION.

Evolution; lectures and discussions. 1893.....575 B77
Contents: Herbert Spencer, by D. G. Thompson.—Charles Robert Darwin, by J. W. Chadwick.—Solar and planetary evolution, by G. P. Serviss.—Evolution of the earth, by L. G. Janes.—Evolution of vegetal life, by William Potts.—Evolution of animal life, by R. W. Raymond.—Descent of man, by E. D. Cope.—Evolution of mind, by R. G. Eccles.—Evolution of society, by J. A. Skilton.—Evolution of theology, by Z. S. Sampson.—Evolution of morals, by L. G. Janes.—Proofs of evolution, by N. C. Parshall.—Evolution as related to religious thought, by J. W. Chadwick.—Philosophy of evolution, by S. H. Nichols.—Effects of evolution on the coming civilization, by M. J. Savage.

CHAMBERLAIN, Alexander Francis.

The child; a study in the evolution of man. 1900. (Contemporary science series.)575 C35
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A study of the child with reference to his place and part in the development of the human race. The author is (1904) assistant in ethnology at Clark university.

CLODD, Edward.

A primer of evolution. 1895.....575 C61p

Contents: The contents of the universe.—The distribution of matter.—The solar system.—The earth; its past life-history.—Present life-forms.—The becoming and growth of the universe.—The origin of life.—The origin of life-forms.—The origin of species.—Proofs of derivation of species.—Social evolution.

An abridgment of Clodd's "Story of creation."

"Written in a remarkably clear, simple and attractive style, easily understood by the unscientific reader, and an excellent introduction to the more elaborate works on the subject." *Oliver Thorne Miller.*

The story of creation; a plain account of evolution. 1896.....575 C61

"Aims to present 'in a brief and handy compass'...the history of evolution. Its standpoint is the extreme...scientific one...There is but brief reference to moral and social development...The presentation is clear and concise, meets its purpose, and is valuable from its own position." *Dial*, 1888.

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COE, Charles Clement.

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Contents: What is evolution?—Are species mutable?—Classification of the organic world.—Life during the geological ages.—Embryology.—Geographical distribution.—Darwin's explanation of evolution.—More recent attempts to explain evolution.—The evolution of man.

Method of evolution; a review of the present attitude of science toward the question of the laws and forces which have brought about the origin of species. 1900.....575 C75

Prof. Conn, who in a previous work summarized for the popular reader the evidence for and against the general theory of organic evolution, has now brought the subject up to date by reviewing the present attitude of science toward the various evolutionary theories. The work gives an especially full account of the theories of heredity inaugurated by Weismann, and of the very great changes that they have produced in the view which biologists take to-day in regard to all phenomena connected with evolution and development.

COPE, Edward Drinker.

The origin of the fittest; essays on evolution. 1887.....575 C79

Some of these essays are for the general reader, some only for the specialist. They originated in lectures, or were published in magazines, from 1869 to 1887 and were suggested to the author by his special zoological and paleontological studies.

"The man who, since Louis Agassiz, has been the greatest influence in American biology." *Nature*, 1897.

The primary factors of organic evolution. 1896.....575 C79p

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Lowell lectures on the ascent of man. 1895.....575 D84

An able and interesting work surveying the whole process of human evolution. The author lays stress on the struggle for the life of others which, beginning in motherhood, has enormously qualified the struggle for self emphasized by Darwin.

DURHAM, William.

- Evolution, antiquity of man, bacteria, etc. 1890. (Science in plain language.).....575 D94
Collection of short articles giving, in every-day language, the general results of scientific investigation.

EIMER, Gustav Heinrich Theodor.

- Organic evolution as the result of the inheritance of acquired characters, according to the laws of organic growth.
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"An abundant storehouse of facts, old and new, about the influence of the physical environment." *Nature*, 1888.

GUIBERT, J.

- In the beginning (Les origines); tr. fr. the French by G. S. Whitmarsh. 1900575 G96
Contains numerous bibliographies.
A popular exposition of human origins written by the present (1900) superior of the Institut catholique, Paris, for his students when he was professor of natural science at Issy. The result of his endeavors to train young ecclesiastics who would later have to propagate and defend their faith.

HAECKEL, Ernst.

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Evolution of man. 2v. 1892.....575 H13
Forms the second, more detailed part of the author's "Natural history of creation."
"Attempt to render the facts of human germ-history accessible to a wider circle of educated people, and to explain these facts by human tribal history." *Author's preface*.
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The last link; our present knowledge of the descent of man; with notes and biographical sketches by Hans Gadow. 1898575 H13l
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- Problems of evolution. 1900575 H38
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 Darwinism and Lamarckism, old and new. 1899.....575 H97
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- HUXLEY, Thomas Henry.**
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Contents: The Darwinian hypothesis.—"The origin of species."—Criticisms on "The origin of species."—Genealogy of animals.—Mr Darwin's critics.—Evolution in biology.—The coming of age of "The origin of species."—Charles Darwin.—The Darwin memorial.—Obituary.—Lectures to working men "On our knowledge of the causes of the phenomena of organic nature."
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 From the first publication of the Darwinian theory Jäger was one of its most active supporters and by his own researches has contributed much to the general progress of organic science. These selections range in date from 1864 to 1885.
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 Foot-notes to evolution; a series of popular addresses on the evolution of life. 1898.....575 J42
- MORRIS, Charles.**
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 Intended to give the believer in evolution a reason for his belief, and to put into compact and available form material formerly only to be found scattered through scientific works.
- NÄGELI, Karl Wilhelm von.**
 Mechanico-physiological theory of organic evolution; summary; tr. by V. A. Clark and F. A. Waugh. 1898.....575 N12
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 Darwin and after Darwin. 3v. 1896-97.....575 R65
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 v.2. Post-Darwinian questions; heredity and utility.
 v.3. Post-Darwinian questions; isolation and physiological selection.
 A good exposition of Darwinism and evolution carefully prepared for popular use.
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 A short digest of Darwin's "Origin of species," published with Mr Darwin's approval and at his request.
- RRED, Arze Z.**
 Evolution versus involution. 1885.....575 R81
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- SHUTE, D.Kerfoot.**
 First book in organic evolution. 1899.....575 S56
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Elementary introduction to the evolution theory, interesting to the general reader. Special attention has been paid to the discussion of biological phenomena of general interest, such as heredity.

SPENCER, Herbert.

The factors of organic evolution. 1895.....575 S74f

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Contents: Progress, its law and cause.—Manners and fashion.—The genesis of science.—The physiology of laughter.—The origin and function of music.—The nebular hypothesis.—Bain on the emotions and the will.—Illogical geology.—The development hypothesis.—The social organism.—Use and beauty.—The sources of architectural types.—The use of anthropomorphism.

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TOPINARD, Paul.

Science and faith; or, Man as an animal and man as a member of society, with a discussion of animal societies. 1899.....575 T6a

"In a series of chapters the author sketches man's development, as a member not only of the animal kingdom, but also of society, seeking to trace in the lower forms of life the rudiments both of structures and of ideas. Finally, he arrives at the conclusion that Science and Faith mutually exclude each other...The book is worth reading, whether we are or are not satisfied with its conclusions." *Nature*, 1900.

TYLER, John Mason.

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"Clearly arranged and vigorously presented chain of evidence concerning man's physical and mental development, followed by firm statement of belief in Bible teachings." *Popular science monthly*.

VARIGNY, Henry C. de.

Experimental evolution. 1892.....575 V21

Lectures delivered in 1891 before the Edinburgh summer school of arts and sciences. Author refers largely to French authorities, and while not neglecting the past, tries particularly to show what can still be done, by research and experiment, to develop the evolution theory.

WILSON, Andrew.

Chapters on evolution. 1886.....575 W76

"A very full and popular treatise on...organic development...The various questions that have arisen in connection with the development of the organic kingdom are considered with fullness, and by a naturalist competent to deal with them." *Popular science monthly*, 1883.

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GALTON, Francis,

Natural inheritance. 1894.....575.1 G15

An inquiry into the laws governing the inheritance of such characteristics as stature, eye-color, temper, the artistic faculty and some forms of disease. Its methods will appeal particularly to the mathematician and the scientific student of heredity.

HAYCRAFT, John Berry.

Darwinism and race progress. 1895. (Social science series.).....575.1 H36

Short untechnical study on the importance of high standards of health and morals if the human race is to progress, or even to be kept from degenerating.

HERTWIG, Oscar.

Biological problem of to-day; preformation or epigenesis?

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Statement of his reasons for believing in epigenesis. Most of his statements are based on data accumulated from his investigations of cell

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ROMANES, George John.

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Treats of Weismann's theories, leaving the assumption of non-transmissibility of acquired characters, upon which they are based, for consideration in a future volume. See Romanes' "Darwin and after Darwin," v.2.

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Essays upon heredity and kindred biological problems. 2v.

1891-92.....575.1 W46e

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Heredity, according to his view, is brought about by the transference from one generation to another of a substance with a very definite and very complex constitution, the germ-plasma." *Nature*, 1893.

On germinal selection as a source of definite variation.

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Address delivered before the International congress of zoology, Leyden, Sept. 16, 1895.

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BATESON, William.

Materials for the study of variation treated with especial

regard to discontinuity in the origin of species. 1894...575.2 B31

DARWIN, Charles.

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DAVENPORT, Charles Benedict.

Statistical methods, with special reference to biological varia-

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MARSHALL, Arthur Milnes.

Lectures on the Darwinian theory. 1900.....575.4 M41

Contents: History of the theory of evolution.—Artificial and natural selection.—The argument from paleontology.—The argument from embryology.—The colours of animals and of plants.—Objections to the Darwinian theory.—The origin of vertebrate animals.—The life and work of Darwin.

POULTON, Edward Bagnall.

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WALLACE, Alfred Russel.

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 A popular description of wild flowers arranged in chronological sequence, illustrated by well-drawn figures; with a systematic index giving family, color, locality, environment, and date of blooming. Scientific and common names are given; technical terms few. Aims at popularizing the study of plants. Adapted to stimulate a wider knowledge of the plants about us, but of limited value for the recognition of species. Chiefly useful for those who have little time or inclination for scientific study.
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- BAILEY, William Whitman.
 Botanizing; a guide to field-collecting and herbarium work.
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Description des machines et procédés consignés dans les brevets d'invention, de perfectionnement et d'importation dont la durée est expirée, et dans ceux dont la déchéance a été prononcée, 1791-1843. v.1-82. 1811-54qr608.44 F86a

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v.4. 1720-1726. v.5. 1727-1731. v.6. 1732-1734.

v.7. 1734-1754.

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RECUEIL spécial des brevets d'invention. v.27-date. 1880-dateqr608.493 B39

The only official publication containing descriptions of Belgian specifications.

SWITZERLAND—Eidgenössisches amt für geistiges eigenthum.

Patente; jahres-publikationen des Eidg. amtes für geistiges eigenthum, Nov. 1888-date. 1er jahrgang-date. 1890-dater608.494 S97

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HOWSON, Henry, & Charles.

Brief treatise on United States patents. 1877.....608.73 H86

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The records of patents since 1871 will be found in the "Specifications and drawings of patents," issued monthly, and in the "Official gazette," issued weekly.

The report of the commissioner of patents since 1871 is merely a very brief administrative report of the work of the office, and is bound with the annual index to the "Official gazette."

Prior to 1862, when the Department of agriculture was established, the report on agriculture was published by the commissioner of patents and forms a part of his Annual reports.

Decisions of the commissioner of patents and of United States courts in patent cases, 1895-date. 1896-date. .r608.73 U25d
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Official gazette; containing the patents, trade-marks, designs and labels issued [each week]; weekly. v.1-date.
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An appendix contains the "Decisions of the commissioner of patents and of the United States courts in patent cases."

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Rules of practice, revised June 18, 1897, with appendix of amendments up to and including Dec. 1, 1897. 1899..r608.73 U25

The same; revised January 2, 1903. 1903.....r608.73 U25r

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CONFEDERATE STATES OF AMERICA—Patent office.

Rules and directions for proceedings in the Patent office.

1861r973.7 L52
Bound with Lee's "Volunteer's hand book."

609 History of useful arts and inventions

BAKER, Ray Stannard.

Boy's book of inventions; stories of the wonders of modern science. 1899.....j609 B17

Contents: A voyage on the bottom of the sea.—Liquid air.—Telegraphing without wires.—The modern motor vehicle.—X-ray photography.—Tailless kites.—The story of the phonograph.—The modern skyscraper.—Through the air.

The same. 1903.....609 B17

BECKMANN, Johann.

History of inventions, discoveries and origins. 2v. 1892...609 B36

Gives the origin and history of many materials, utensils and processes used in the mechanic arts and for domestic purposes, and is a mine of curious and useful information. It was written toward the end of the eighteenth century, but some parts have been brought down to a later date.

BUTTERWORTH, Benjamin, *comp.*

Growth of industrial art. 1892.....qr609 B98

Pictures and brief text showing the origin and development of all sorts of utensils and machines. Compiled by the commissioner of patents, by order of Congress.

BYRN, Edward Wright.

Progress of invention in the 19th century. 1900.....609 B99

Popular, well-illustrated compilation from the Patent office records, of the various steps by which the more important inventions have reached their present perfection. Gives the numbers of all patents to which reference is made.

DEPEW, Chauncey Mitchell, *ed.*

One hundred years of American commerce, 1795-1895, by
100 Americans. 2v. 1895.....qr609 D43

HALE, Edward Everett.

Stories of invention. 1891.....j609 H15

Contents: Archimedes.—Friar Bacon.—Benvenuto Cellini.—Bernard Palissy.—Benjamin Franklin.—Theorists of the 18th century.—James Watt.—Robert Fulton.—George Stephenson and the locomotive.—Eli Whitney.—James Nasmyth.—Sir Henry Bessemer.—The last meeting.

ILES, George.

Flame, electricity and the camera; man's progress from the first kindling of fire to the wireless telegraphy and the photography of color. 1900.....609 I22

Outlines the chief uses of fire, electricity and photography. Argues that electricity means as much for human progress as flame, and recites how it has begun to supplant flame in important tasks. Shows that the camera marks a radical departure in depiction, superseding the pencil and brush in many directions, and representing much not otherwise to be portrayed. The rapid flowering and utilization of these resources is emphasized; the author holds that similar "leaps" long ago divided man from his next of kin.

MASON, Otis Tufton.

Origins of invention; a study of industry among primitive peoples. 1895. (Contemporary science series.).....609 M45

Contents: Tools and mechanical devices.—Invention and uses of fire.—Stone-working.—The potter's art.—Primitive uses of plants.—The textile industry.—War on the animal kingdom.—Capture and domestication of animals.—Travel and transportation.—The art of war.

Traces some of our modern industries to their origins, and shows how the genius of man, working upon and influenced by the resources and the forces of nature, learned its first lessons in the art of inventing.

MOWRY, William Augustus, & Arthur May.

American inventions and inventors. 1900.....j609 M94

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Manufacturing arts in ancient times. 1879.....r609 N12

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Contents: Steam engines.—Iron.—Tools.—Railways.—Steam navigation.—Ships of war.—Fire-arms.—Torpedoes.—Ship canals.—Iron bridges.—Printing machines.—Hydraulic power.—Pneumatic dispatch.—Rock boring.—Light.—The spectroscope.—Sight.—Electricity.—The electric telegraph.—Lighthouses.—Photography.—Printing processes.—Recording instruments.—Aquaria.—Gold and diamonds.—New metals.—India-rubber and gutta-percha.—Anæsthetics.—Explosives.—Mineral combustibles.—Coal-gas.—Coal-tar colours.—The greatest discovery of the age.

The same. 1893.....r609 R78

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Twentieth century inventions; a forecast. 1901.....609 S96

Contents: Inventive progress.—Natural power.—Storage of power.—
Artificial power.—Road and rail.—Ships.—Agriculture.—Mining.—
Domestic.—Electric messages.—Warfare.—Music.—Art and news.—
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Aunt Louisa's book of common things. [1895.].....j609 V15

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YEATS, John.

Technical history of commerce; or, The progress of the useful arts. 1887.....609 Y22

Contents: Pre-historic and ancient industrial art.—Medieval industrial art.—Modern industrial art.—Recent appliances, processes and products.

"Chronological list of inventions and discoveries of all ages," p.499-517.

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Experiments on animals. 1900.....r610 P14

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- ELECTRICITY**; weekly, July 22, 1891—date. v.1—date. 1892—dateqr621.305 E4435
- ELEKTROTECHNISCHE zeitschrift**; hrsg. vom Elektrotechnischen verein; [monthly and weekly]. v.1—date. 1880—dateqr621.305 E448
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- HOME study for electrical workers**; monthly, July 1897-Oct. 1899. 3v. in 2. 1898-99.....r621.305 H75
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No more published.
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- L'INDUSTRIE électrique**; revue de la science électrique et de ses applications industrielles; [fortnightly]. v.1—date. 1892—date.....qr621.305 I242
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Continued as "L'éclairage électrique."
- NORTHERN SOCIETY OF ELECTRICAL ENGINEERS.**
Proceedings. 5v. in 2. 1894-99.....r621.305 N45
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- OPERATOR; a journal of telegraphic, telephonic and electrical science; semimonthly. v.13, no.13-31. 1882....qr621.305 O26
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- REVIEW of the telegraph and telephone. *See* Electrical review, [New York].
- REVUE internationale de l'électricité et de ses applications; [monthly]. 11v. 1885-90.....qr621.305 R37
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- TELEGRAPHIC journal and electrical review. *See* Electrical review, [London].
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- TRACTION and transmission; a monthly supplement to "Engineering," Apr. 1901-date. v.1-date. 1901-date...qr621.305 T67
- WESTERN electrician; weekly. v.1-date. 1887-date...qr621.305 W56
v.2, Jan.-June 1888, wanting.
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- HOSPITALIER, Édouard, *comp.*
Formulaire pratique de l'électricien. 1re année-date. 1883-dater621.308 H82
- KEMPE, Harry Robert.
Electrical engineer's pocket-book. 1892.....r621.308 K17
- MUNRO, John, & Jamieson, Andrew, *comp.*
Pocket-book of electrical rules and tables. 1894.....r621.308 M96

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- ARNOLD, E. *ed.*
Constructionstafeln für den dynamobau. 2v. in 1. 1899-1900qr621.31 A75
Contents: Gleichstrom-maschinen. — Wechselstrom-maschinen, wechselstrom-motoren und transformatoren.
Dimensioned designs of types and details showing the current practice of some leading European manufacturers.
- ATKINSON, Philip.
Electric transformation of power and its application by the electric motor, including electric railway construction. 1893.....r621.31 A87
In plain untechnical language. All historical matter has been excluded and only the most approved kinds of apparatus have been described.
Title of 2d edition reads "Power transmitted by electricity."
- Power transmitted by electricity and applied by the electric motor, including electric railway construction.
1900j621.31 A87
Title of 1st edition reads "Electric transformation of power."
Contents: Definitions.—Principles of the electric motor.—Stationary motors.—Applications of the stationary motor.—Electric railways and railway motors.—Central station construction and equipment.
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The same. 1899.....621.31 A87

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Original papers on dynamo machinery and allied subjects. 1893.....621.31 H78

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Electric motor and the transmission of power. 1896. (Elementary electro-technical series.).....621.31 H83

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Practical descriptions of the various types of machines made by different American builders, giving data as to sizes, functions and capabilities.

JACKSON, Dugald Caleb.

Text-book on electro-magnetism and the construction of dynamos. 2v. 1896-97621.31 J12

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KAPP, Gisbert, *comp.*

Dynamo construction, electrical and mechanical; a technical description of typical machines for the generation of high-pressure currents and other apparatus, and the calculations connected therewithqr621.31 K13d
Contains 25 sheets of working drawings.

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Dynamos, alternators and transformers. 1893.....r621.31 K13dy

The same. 1902621.31 K13

Title of the new edition reads "Dynamos, motors, alternators and rotary converters."

Exposition of the principles of their construction. Suitable for advanced students and designers. New edition does not treat of stationary transformers.

KENNELLY, Arthur Edwin.

Theoretical elements of electro-dynamic machinery. v.1.

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MARTIN, Thomas Commerford, & Wetzler, Joseph.

Electric motor and its applications, with appendix on the development of the electric motor since 1888, by Louis

Bell. 1892.....q621.31 M42

PARSHALL, Horace Field, & Hobart, H. M.

Armature windings of electric machines. 1895.....q621.31 P26

Electric generators. 1900.....q621.31 P26e

Amplification of a series of lectures delivered at the Massachusetts institute of technology.

Intended to assist the designer to make practical use of our knowledge of the theory of the dynamo.

The same. 1900.....qr621.31 P26e

SHELDON, Samuel, & Mason, Hobart.

Dynamo electric machinery; its construction, design and operation. 2v. 1901-02621.31 S54

v.1. Direct current machines.

v.2. Alternating-current machines.

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Well-written exposition of present (1902) practice. Useful for students and as a handy reference book for engineers.

THOMPSON, Silvanus Phillips.

Dynamo-electric machinery. v.1. 1904. (Finsbury technical manuals.).....621.31 T38d2

- The same.* v.1.....r621.31 T38d2
The same; with supplement. 3v. in 2. 1897.....r621.31 T38d
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 A standard general treatise on design and construction. Treats of theory and practice in considerable detail. Clearly and interestingly written. Edition 7 contains the material also published separately under the title "Design of dynamos."
 Latest dynamo-electric machines. 1897. (Finsbury technical manuals.).....r621.31 T38l
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Die ankerwicklungen und ankerkonstruktionen der gleichstrom-dynamomaschinen. 1899.....621.312 A75

AVERY, Alfred H.

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 Originally published in the "Model engineer," v.2-3.
 Simple, theoretical and practical treatise for amateur dynamo-builders, showing how the calculations should be made. Includes the calculations for a 30-watt, a 500-watt, and a 2-kilo-watt dynamo.

BOTTONE, Selimo Romeo.

The dynamo; how made and how used. 1896.....621.312 B64

CROFTS, Alfred.

How to make a dynamo; a practical treatise for amateurs, containing detailed instructions for constructing a small dynamo to produce the electric light. 1896.....621.312 C88

FISCHER-HINNEN, J.

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 Collection of the practical formulæ necessary for the construction of continuous-current dynamos, with many numerical examples showing their application. Author until recently was chief draftsman at the Oerlikon works, Switzerland, (1900).

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 Treats only of direct current machinery.
- PARKHURST, Charles Dyer.
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Contents: A small electric motor for amateurs.—A "home-made" electric motor.—A sewing-machine motor for amateurs.—Armature windings, connections and currents.—A fifty-light incandescent dynamo.—Data of standard machines.
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 Practical dynamo-building for amateurs; how to wind for any output. 1890. (Van Nostrand's science series.)..621.312 W16
- WATSON, A. E.
 How to build a fifty-light dynamo, or four horse-power motor. 1895.....621.312 W31
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 Practical calculation of dynamo-electric machines.
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Contents: Physical principles of dynamo-electric machines.—Calculation of armature.—Calculation of magnetic flux.—Dimensions of field-magnet frame.—Calculation of magnetizing force.—Calculation of magnet winding.—Efficiency of generators and motors; Designing of a number of dynamos of same type; Calculation of electric motors, unipolar dynamos, motor-generators, etc.; Dynamo-graphics.—Practical examples of dynamo calculation.
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 Compilation of practical rules from the data of a large number of standard dynamos. Requires only a knowledge of arithmetic and algebra.
- WILSON, Charles Ashley Carus—
 Electro-dynamics; the direct-current motor. 1898.....621.312 W76
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- BEDELL, Frederick, & Crehore, A. C.
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- BEHREND, Bernhard Arthur.
 Induction motor; a short treatise on its theory and design,

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1901.621.313 B38
Graphical treatment, by an engineer of wide experience with induction motors. Requires a considerable knowledge of polyphase work.
- BLAKESLEY, Thomas Holmes.
Papers on alternating currents of electricity, for the use of students and engineers. 1891. (Specialists' series.)...621.313 B52
Exemplifies the use of the geometrical method in treating problems involving the flow of alternating electric currents.
- CHEVRIER, G.
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Clear, elementary presentation of the principles underlying the production and utilization of currents of this form.
- FLEMING, John Ambrose.
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Contents: Alternators.—Motors.—Transformers and condensers.—Transformation of current.—Distribution mains.—Current distribution.—Industrial management of alternate currents.
- MARTIN, Thomas Commerford.
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 Treats of the subject in a practical and interesting manner. Is well illustrated with diagrams, and photographs of up-to-date machinery (1902).
- STEINMETZ, Charles Proteus, & Berg, E. J.
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 Single phase currents considered from an engineering standpoint.
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- ADAMS, George, A. I. E. E.
 Transformer design; a treatise on their design, construction and use. 1899.....621.314 A21
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- BEDELL, Frederick.
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- BARNES, David Leonard.
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 Introduction to the study of central station electricity supply. 1899. (Specialists' series.).....621.316 G25
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 Commercial and business aspects of municipal electricity supply; a practical handbook for the use of electrical engineers to municipal corporations and members of municipal electricity committees. 1899.....qr621.316 G35
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- SCOTT, Ernest Kilburn.
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 New dynamo tenders' hand-book. 1900.....621.319 B14
 Information on the theory and practice of the care, operation and maintenance of electric light and power installations. Intended for those having charge of electrical machinery. Simple and practical.

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Louis Bell.—The multiple unit system for electric railways, by E. J. Sprague.—The electric locomotive, by G. K. Muir.—Polyphase alternating currents for electric railways, by D. C. Jackson.—The selection of rolling stock, by C. F. Uebelacker.—Storage batteries and electric railways, by Herbert Lloyd.—Electric railways in America, by W. J. Clark.—The City and South London electric railway, by P. V. McMahon.

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Report of the board, with plates. 2v. 1886. (49th cong.

1st sess. House. Ex. doc. no.49.)qr623.4 U2536

v.1. Text. v.2. Plates.

UNITED STATES—Gun foundry board.

Report, Feb. 16, 1884, [relative to the best location for establishing a government foundry], together with the supplementary report of Dec. 20, 1884. 1885. (48th

cong. 1st sess. House. Ex. doc. no.97.)r623.4 U253

UNITED STATES—Heavy ordnance and projectiles,

Board on.

Report of the Board on heavy ordnance and projectiles appointed in conformity with the act of Congress approved Mar. 3, 1881. 1882. (47th cong. 1st sess. Senate.

Ex. doc. no.178.)r623.4 U2533r

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UNITED STATES—Heavy ordnance and projectiles,

Select committee on.

Report of the select committee on heavy ordnance and projectiles, appointed under Senate resolution of Aug. 2, 1882. 1883. (47th cong. 2d sess. Senate. Report

no.969.)r623.4 U2533

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Report of the chief of ordnance, 1872/73-date. 1874-date...r623.4 U251

—Index, 1867-1887. 1888.

The report for 1873/74 will be found in the sheep bound set of congressional documents, no.1635.

This report forms a part of the report of the secretary of war and earlier reports will be found bound with his reports, r353.6 U25.

Reports of experiments on the strength and other properties of metals for cannon, with a description of the machines for testing metals and of the classification of

cannon in service. 1856.....qr623.4 U25

623.42 Armor-plate

AMERICAN IRON AND STEEL ASSOCIATION, *comp.*

History of the manufacture of armor plate for the United

States navy. 1899.....qr623.42 A51

BACLÉ, L.

Les plaques de blindages. 1900.....qr623.42 B12

"Extrait du Bulletin de la Société d'encouragement [pour l'industrie nationale], 1899."

Account of the evolution and present methods of manufacture of armor-plate. Devotes particular attention to the French works and their products.

SCHÜTZ, Julius von.

Gruson's chilled cast-iron armour; tr. into English by

- H. H. Grenfell. 1887.....qr623.42 S39
Describes briefly the Gruson armored turrets and batteries, and gives the results of all firing tests to which they were subjected previous to 1887.
- UNITED STATES—Armor factory board. .
Report [relative to the establishment of a government armor factory], with accompanying documents. 1897.
(55th cong. 2d sess. House. Doc. no.95.).....r623.42 U2532
- UNITED STATES—Armor-plate contracts, Committee to investigate.
Violation of armor contracts; report and evidence submitted by the committee on investigation of armor-plate contracts made by the government with the Carnegie steel company [submitting H. Res. 226, directing retests]. Aug. 23, 1894. 1894. (53d cong. 2d sess. House. Report no.1468.).....r623.42 U25
- UNITED STATES—Navy department.
Cost and price of armor; report of the secretary of the navy to Congress on the actual cost of armor plate and the price for the same which should be equitably paid, as directed by the act of June 10, 1896, making appropriations for the naval service. 1897. (54th cong. 2d sess. House. Doc. no.151.).....r623.42 U253
- UNITED STATES—Ordnance and war ships, Select committee on.
Report [on the capacity of steel-producing works in the United States, and whether ordnance and war ships should be manufactured and built by the government or by contract with private persons], with appendix. 1886r623.42 U2533
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- FLAGLER, Daniel W.
History of the Rock Island arsenal, from its establishment in 1863 to Dec. 1876, and of the island of Rock Island, 1804-1863; prepared under the instructions of S. V. Benét. 1877. (United States—Ordnance office. Ordnance memoranda, no.20.).....qr623.47 F59

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- GARBETT, Herbert James Gilbert.
Naval gunnery; a description and history of the fighting equipment of a man-of-war. 1897. (Royal navy hand-books.)623.5 G17
"To those who have a taste for mechanics the book should be of absorbing interest. The delicate working of the breech mechanism, the process of manufacture, the ingenious methods of loading, the construction of different forms of fuses, and many other triumphs of mechanical skill are dealt with in an elementary and plainly worded manner." *Academy*.
- RADFORD, Cyrus S.
Hand-book on naval gunnery, for the use of U. S. navy,

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- UNITED STATES—Adjutant-general's office.
- Artillery circulars; series of 1892. no.A-C. 1899.....qr623.5 U253a
- no.A-C. The resistance of guns to tangential rupture, by Col. Pashkevitsch.—Interior ballistics, by Col. Pashkevitsch.—Whistler's graphic tables of fire, with chart, by G. N. Whistler.
- Artillery circulars; series begun in 1893. no.A-I, M. 1893-1900qr623.5 U253
- no.A-F. The most suitable powder for use in the 8-inch M. L. rifle, by G. N. Whistler. — Gun-powder and high explosives, by Willoughby Walke.—Electricity and its applications in artillery practice, by G. L. Anderson. — The use of meteorological instruments, by C. R. Kilbourne.—Range and position finding, by H. L. Harris.—Ballistics, by J. M. Ingalls.—Supplement, by J. M. Ingalls.
- no.G-I. Permanent works and their attack by siege operations, by James Chester.—Mathematics, by Arthur Murray.—Modern guns and mortars adopted in the United States land service; their carriages, projectiles, fuzes and sights, by C. C. Morrison and J. C. Ayres.
- no.M. Ballistic tables; comp. by J. M. Ingalls.
- UNITED STATES—Navigation bureau. (Navy department.)
- Manual of instruction in ordnance and gunnery for the U. S. naval training service. 1900.....r623.5 U25

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- UNITED STATES—Engineers corps.
- Organization of the bridge equipage of the United States army, with directions for the construction of military bridges. 2v. 1869-98.....qr623.6 U25
- v.1. Text. v.2. Plates.
- v.1 is a reprint of the edition of 1870 and contains plates 11-16 reduced to half size.

623.8 Naval architecture

- AMERICAN BUREAU OF SHIPPING.
- Rules for building and classing vessels, including rules for the construction of steam machinery and for the installation of electric lighting and power apparatus on ship-board. 1901.....r623.8 A51
- Includes tables of scantlings for steel, iron and wooden vessels.
- ATTWOOD, E. L.
- Text-book of theoretical naval architecture. 1899.....623.8 A88
- "Books on theoretical naval architecture," p.292.
- BENNETT, Frank Marion.
- Steam navy of the United States; a history of the growth of the steam vessel of war in the U. S. navy and of the naval engineer corps. 2v. 1897.....623.8 B43
- The same.* 1896.....r623.8 B43
- CASSIER'S MAGAZINE.
- Marine number of Cassier's magazine. 1897.....623.8 C26
- The same.* 1897.....r623.8 C26
- Contains articles on the design and the building of river, sound and ocean steamers, on specialties of warship design, auxiliary machinery for American warships, modern marine engines and boilers, fast torpedo boats, an article by Sir Charles Dilke on the naval weakness of Great Britain and one by John P. Holland on submarine navigation, all fully illustrated.

GERMANISCHER LLOYD.

Regulations for the survey and classification, and rules for the building and equipment of iron and steel vessels.

1900qr623.8 G32

HALDANE, John Wilton Cuningham.

Steamships and their machinery. 1893.....623.8 H15

"Object has been to describe in a simple, unconventional, and readable manner, the latest phases of marine engineering and its surroundings in all departments." *Preface.*

SCIENTIFIC AMERICAN.

Special navy supplement. 1898.....qr623.8 S41

UNITED STATES—Navigation bureau. (Navy department.)

Papers and discussions on steel for ship-building. 1883.

(Navy scientific papers, no.11.).....r623.8 U25

Reprinted from "Transactions of the Institution of naval architects."

WALTON, Thomas.

Steel ships; their construction and maintenance; a manual for shipbuilders, ship superintendents, students and marine engineers. 1904.....623.8 W19

The same. 1901.....r623.8 W19

WATSON, Thomas Henry.

Naval architecture; a manual on laying-off iron, steel and composite vessels. 1898.....r623.8 W32

WHITE, William Henry.

Manual of naval architecture. 1894.....623.8 W63

623.805 Periodicals. Societies

INSTITUTION OF NAVAL ARCHITECTS.

Transactions. v.1—date. 1860—date.....qr623.805 I24

———Index, v.1—42. 2v. 1881—1901.

JOURNAL of the American society of naval engineers;

quarterly. v.1—date. 1889—date.....r623.805 J46

———General index, v.1—8, 1889—1896. 1897.

MARINE review; weekly. v.21—date. 1900—date.....qr623.805 M38

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.

Transactions. v.1—date. 1893—date.....qr623.805 S67

Names and addresses of officers and members, 1899—1901.

1898—[1900]r623.806 S67

The vol. for 1900 contains also "Table of contents of the Transactions of the society, v.1—7."

623.9 Armored vessels. Torpedoes. Submarine boats

ARMSTRONG, George Elliot.

Torpedoes and torpedo-vessels. 1896.....623.9 A73

FOREST, F. & Noalhat, Henri.

Les bateaux sous-marins. 2v. 1900.....qr623.9 F76

v.1. Historique. v.2. Technologie.

HOVGAARD, G. W.

Submarine boats. 1887.....623.9 H84

JANE, Fred. T.

The torpedo in peace and war. 1898.....q623.9 J17

"I have tried in these pages to set out what may be called the social

side of torpedo-craft life, the life as I have seen, experienced, and enjoyed it. All the illustrations of naval manoeuvres and so forth are reproductions of actual sketches made at sea on board the ships with which they deal." *Preface.*

OLDKNOW, Reginald C.

Mechanism of men-of-war. 1896.....623.9 O23

WILMOT, Sydney Marow Eardley-

Development of the navies during the last half century.

1892623.9 W76

Evolution of modern ships of war, and their equipment; a review of progress, especially in England.

624 Bridges and roofs

BENDER, Charles B.

Principles of economy in the design of metallic bridges.

1885r624 B42

Method for comparing the relative economy of different forms of trusses.

BOW, Robert Henry.

Economics of construction in relation to framed structures.

1873624 B662

Contents: Preliminary parts: Classification of structures.—Diagrams of forces.

Gives a classification of the various forms of roof and bridge trusses, with a description of the graphical methods of determining stresses in structures.

BOWSER, Edward Albert.

Treatise on roofs and bridges, with numerous exercises.

1898624 B66

BURR, William Hubert.

Course on the stresses in bridge and roof trusses, arched ribs and suspension bridges. 1886.....624 B94

CAMPIN, Francis.

Iron and steel bridges and viaducts; a practical treatise upon their construction. 1898.....624 C16

The application of theory to practical designing is explained briefly and simply. The subject is treated from the standpoint of the drafting-room.

CILLEY, Frank H.

Some fundamental propositions relating to the design of frameworks; a study of primary stresses in indeterminate frameworks, and demonstration of the economic superiority of statically determined forms. 1897.....q624 C48

Reprinted from "Technology quarterly," v.10, June 1897.

DU BOIS, Augustus Jay.

Stresses in framed structures, including the strength of materials and theory of flexure, also the determination of dimensions and designing of details, specifications, complete designs and working drawings. 1897.....qb624 D85

The same. 1883q624 D85

Title-page reads "Strains in framed structures."

The same. 1902q531 D85m v.2

Issued as v.2 of "Mechanics of engineering."

FIDLER, Thomas Claxton.

Practical treatise on bridge-construction; a text-book on the design and construction of bridges in iron and steel. 1901..624 F45p

The same. 1893r624 F45

GILLETTE-HERZOG MANUFACTURING CO. *pub.*

Examples of structures built by the Gillette-Herzog mfg. co.; steel mining buildings, power plants, steel and combination bridges, steel columns, beams and girders, castings, traveling cranes, riveted pipe, architectural steel and iron; [plates]. [1901.].....r624 G41

GREENE, Charles Ezra.

Trusses and arches, analyzed and discussed by graphical methods. 3v. 1897. (Graphics for engineers, architects and builders.).....624 G83

- v.1. Roof-trusses.
- v.2. Bridge-trusses.
- v.3. Arches.

HASELER, Ernst.

Der brückenbau; ein handbuch zum gebrauch beim entwerfen von brücken in eisen, holz und stein, sowie beim unterrichte an technischen lehranstalten. v.1, pt.1-4. 1888-1900qr624 H33

- v.1. Die eisernen brücken.
- Contains numerous bibliographies.

HAUPT, Herman.

General theory of bridge construction. 1875.....r624 H35

JOHNSON, John Butler, and others.

Theory and practice of modern framed structures. 1899...q624 J36

The same. 1895.....qb624 J36

The same. 1904.....q624 J36t

- A standard treatise on design, intended for students and engineers. The best work on the subject (1902).

MERRIMAN, Mansfield, & Jacoby, H. S.

Text-book on roofs and bridges. 4v. 1897-98.....624 M63

- v.1. Stresses in simple trusses.
- v.2. Graphic statics.
- v.3. Bridge design.
- v.4. Higher structures.

The same. v.3. 1902624 M63t

- Contains bibliographies.

The same. 1898.....r624 M63

MIDDLETON, George Alexander Thomas.

Stresses and thrusts. 1895.....624 M67

- Enlarged edition of "Strains in structure."

OSBORNE, Richard B.

Select plans of engineering structures for railroads and highways, as actually constructed; dimensions, quantities and cost; [plates]. v.1. 1885.....qr624 O29

- Gives plans for bridges and culverts.

WADDELL, John Alexander Low.

De pontibus; a pocket-book for bridge engineers. 1898...r624 W11

The same. 1901.....624 W11d

WEALE, John, ed.

Theory, practice and architecture of bridges, with examples on the principle of suspension, with supplement by G. R.

Burnell. 5v. in 4. 1839-50.....qr624 W35

- v.1. Hann, James. Theory of bridges.—Gauthey, E. M. General principles of construction.—Moseley, Henry. Theory of the arch.—Hughes, T. Papers on foundations of bridges.—Hill, Laurence. Account of Hutcheson bridge at Glasgow.—Mathematical principles of Dredge's suspension bridge.

- v.2. Hosking, William. Essay and treatises on the theory and architecture of bridges.—Specification of Chester Dee bridge.—Isberwood, B. F. Practical description of the timber bridges, etc. on the Utica and Syracuse railroad.
v.3-4. Plates.
v.5. Supplement.

WINKLER, Emil.

- Vorträge über brückenbau, gehalten an den technischen hochschulen in Prag, Wien und Berlin. v.1, pt.1-2; v.3, pt.1; v.4, pt.4. 1881-87.....r624 W78
v.1, pt.1-2. Theorie der brücken: Aeussere kräfte der balkenträger, Theorie der gegliederten balkenträger.
v.3, pt.1. Hölzerne brücken: Balkenbrücken.
v.4, pt.4. Eiserne brücken: Querkonstruktionen.
"Literatur," v.1, pt.1, p.352-356; v.1, pt.2, p.389-392; v.3, pt.1, p.192-198.

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- v.1. 1899.....qr624.05 B74
No more published.

AMERICAN BRIDGE CO.

- Standards for structural details. 1901.....qr624.08 A51
Of use to engineers and draftsmen in making detail and shop drawings.

WRIGHT, Charles Herbert, & Wing, C. B.

- Manual of bridge drafting. 1896.....qr624.08 W93

MEHRTENS, Georg C.

- Hundred years of German bridge building; published for the Paris universal exhibition, 1900. 1900.....qr624.09 M56
Contents: Introduction.—The history of girder systems and of the theory of bridges.—Improvements in the construction of iron bridges.—Bridge-building companies and their work.—Appendix.
"Table of literary references," p.133-135.
Contains photographs of a great number of the large German bridges, with some drawings in detail.

624.1 Piers. Foundations. Piles

BLAND, William.

- Principles of construction in arches, piers, buttresses, etc.; a series of experimental essays. 1890.....624.1 B53

DOBSON, Edward.

- Foundations and concrete works. 1891.....624.1 D65
Brief elementary account of some of the older methods.

FWLER, Charles Evan.

- Coffer-dam process for piers. 1900.....624.1 F84
The same. 1898.....r624.1 F84

PATTON, William Macfarland.

- Practical treatise on foundations. 1893.....624.1 P31
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POWELL, George T.

- Foundations and foundation walls. 1889.....624.1 P87

TURNBULL, William.

- Reports on the construction of the piers of the aqueduct of the Alexandria canal across the Potomac river at Georgetown, D. C., 1835-1840. 1873. (United States—Engineer department (army).).....qr624.1 T86

WELLINGTON, Arthur Mellen, ed.

- Piles and pile-driving. 1893.....624.1 W49
First published in "Engineering news."

624.2 Girders. Stresses and strains**ADAMS, Henry, C. E.**

Practical designing of structural ironwork; 1st-2d ser.

2v. 1894-1901.....624.2 A21d

Series 2 is called "Designing iron-work."

An especially clear and simple treatment of the subject.

Explains the design of various girders, beams, columns, trusses, etc.
giving notes, calculations, diagrams and drawings required in handy
form for students and for reference.

Strains in ironwork. 1898.....624.2 A21

AMERICAN BRIDGE CO.

Standards of strain sheets for highway bridges.....r624.2 A51

BIRKMIRE, William Harvey.Architectural iron and steel, and its application in the con-
struction of buildings. 1897.....624.2 B48a*The same.* 1897.....r624.2 B48Compound riveted girders, as applied in the construction
of buildings. 1893.....624.2 B48**BOW, Robert Henry.**Treatise on bracing, with its application to bridges and
other structures of wood or iron. 1874.....624.2 B66**CAMPIN, Francis.**Constructional iron and steel work; a treatise for archi-
tects and builders. 1896.....624.2 C16Elementary treatise on methods of designing, intended especially for
students.**CREHORE, John Davenport.**

Mechanics of the girder; a treatise on bridges and roofs.

1886624.2 C87

HIROI, Isami.Plate-girder construction. 1893. (Van Nostrand's science
series.)624.2 H61**STONE, Bindon Blood.**Theory of strains in girders and similar structures. 1873..r624.2 S88
Handbook of practical methods for their calculation.**TYRRELL, Henry Grattan.**

Mill building construction. 1901.....624.2 T98

Deals with the loads to be carried by roofs, floors and walls; with gen-
eral design, and with structural details. Convenient reference book
for designers.**624.3 Truss bridges****BOLLER, Alfred Pancoast.**New York, Providence and Boston railroad; report upon
the construction of the Thames river bridge and ap-
proaches at New London, Conn. 1890.....qr624.3 B61**FOSTER, Wolcott Cronk.**Treatise on wooden trestle bridges according to the present
practice on American railroads. 1897.....q624.3 F81**MERRILL, William Emory.**Iron truss bridges for railroads; methods of calculating
strains, with a comparison of the most prominent truss

- bridges, and new formulas for bridge computations, also the economical angles for struts and ties. 1870..qr624.3 M63
- PHILLIPS, Philip.
The Forth bridge in its various stages of construction and compared with the most notable bridges of the world. [1893.].....qr624.3 P51
"This volume, written by a man who has been familiar with the work from the beginning, and illustrated with plates of the bridge in all stages of construction, forms a valuable memorial of the greatest engineering feat of modern times...The whole story of the building of these caissons on land, of launching and tugging them afloat to the point where they were to be sunk in the estuary, it is the very romance of engineering." *The Times, London.*
- WADDELL, John Alexander Low.
Designing of ordinary iron highway bridges. 1894.....624.3 W11
- WILCOX, Ralph McIntosh.
Theory and calculation of cantilever bridges. 1898. (Van Nostrand's science series.).....624.3 W71

624.6 Arch bridges

- BELL, George Joseph.
Practical treatise on segmental and elliptical oblique or skew arches, setting forth the principles and details of construction in clear and simple terms. 1896.....q624.6 B41
"Object...is to place reliable data, which can be readily understood, in the hands of practical workmen, so as to render the building of oblique arches as simple as the building of an ordinary square arch."
Preface.
- BUCK, George Watson.
Practical and theoretical essay on oblique bridges. 1895..q624.6 B84
- HOWE, Malverd Abijah.
Treatise on arches. 1897.....624.6 H85
- WOODWARD, Calvin Milton.
History of the St. Louis bridge; containing a full account of every step in its construction and erection, and including the theory of the ribbed arch and the tests of materials. 1881.....qr624.6 W86

624.8 Drawbridges

- WRIGHT, Charles Herbert.
Designing of draw-spans. 2v. 1897-98.....624.8 W93

624.9 Roofs

- INSKIP, G. D.
Treatise on mathematical and graphical roof framing, for builders, carpenters and iron workers. 2v. [1900.]....624.9 I24
v.2 consists of tables of reductions and squares.
Describes a system of computation which the author claims to be simple and accurate, and which he presents with the use only of elementary arithmetic.
- RICKER, Nathan Clifford.
Elementary graphic statics and the construction of trussed roofs. 1892.....624.9 R43

625 Railroad and road engineering**BARRY, John Wolfe.**

Railway appliances; a description of details of railway construction subsequent to the completion of the earth-works and structures, including a short notice of railway rolling stock. 1898. (Text-books of science.).....625 B27
Contents: Acts of Parliament and other regulations affecting railways.—Permanent way.—Points and crossings.—Signals.—The block system.—Stations.—Rolling stock.

HALDANE, John Wilton Cuninghame.

Railway engineering, mechanical and electrical. 1897.....625 H15

INTERNATIONAL ENGINEERING CONGRESS,

Glasgow, 1901.

Proceedings of section 1: Railways. 1902.....r625 I24

MASSACHUSETTS—Rapid transit commission.

Report to the legislature, Apr. 5, 1892. 1892.....r625 M45

Contents: Introduction.—The steam railroads.—The streets.—The surface cars.—Elevated railroads.—General considerations.—Supplemental report.—Appendices.

STRICKLAND, William.

Reports on canals, railways, roads and other subjects, made to the Pennsylvania society for the promotion of internal improvement. 1826.....qr625 S91

VOSE, George Leonard.

Manual for railroad engineers and engineering students. 1875r625 V38

WOOD, Nicholas.

Practical treatise on railroads and interior communication in general. 1832.....r625 W85

The same. 1825.....r625 W85p

The first edition antedates the common use of the locomotive, and discusses the probability of the horse being superseded as a railway motive power. At the date of the second edition the locomotive had become recognized as the future motor and the results of numerous tests are given. An appendix contains a list of most of the world's railways over five miles in length.

625.05 Periodicals. Societies

AMERICAN engineer and railroad journal. *See* Railroad and engineering journal.

AMERICAN engineer, car builder and railroad journal. *See* Railroad and engineering journal.

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION.

Proceedings of the annual convention (1st-date), 1900-date. 1900-date.....r625.05 A512

AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.

Report of the proceedings of the annual convention (1st-2d, 4th-19th, 21st-date), 1868-69, 1871-86, 1888-date. 1872-dater625.05 A51

———Index, 1868-1900. 1901.

**ASSOCIATION OF RAILWAY SUPERINTENDENTS
OF BRIDGES AND BUILDINGS.**

Proceedings of the annual meeting (1st-2d, 5th-date),
1891-92, 1895-date. 1891-date.....r625.05 A84

EASTERN maintenance of way association. *See* New England roadmasters' association.

LOCOMOTIVE engineering; a practical journal of railway motive power and rolling stock; monthly. v.1-date.
1888-dateqr625.05 L76
v.14-date title reads "Railway and locomotive engineering."

NEW ENGLAND RAILROAD CLUB.

Proceedings; monthly. 1897-date.....r625.05 N26
No meetings are held from June to September.

NEW ENGLAND ROADMASTERS' ASSOCIATION.

Proceedings. v.13-18. 1895-1900.....r625.05 N2612
In 1898 the name of the society became "Eastern maintenance of way association."
No more published.

NEW YORK RAILROAD CLUB.

Official proceedings; monthly, Nov. 1900-date. v.11-date.
1901-dater625.05 N261

NORTH-WEST RAILWAY CLUB.

Official proceedings, Sept. 1896-date. v.2, no.3-date. 1896-dater625.05 N45
v.2, no.4-9; v.3, no.5-6; v.4, no.1, 6-7, proceedings for Oct. 1896-March 1897, Feb.-March, Oct. 1898, March-April 1899 wanting.

PACIFIC COAST RAILWAY CLUB.

Official proceedings; monthly. v.1-date. 1899-date....r625.05 P12

RAILROAD and engineering journal; monthly. v.61-date.

1887-dateqr625.05 R1574
The "American railroad journal" and "Van Nostrand's eclectic engineering magazine" have been consolidated in this publication. The volume number is that of the "American railroad journal."
v.67-69, title reads "American engineer and railroad journal."
v.70-date, title reads "American engineer, car builder and railroad journal."

RAILROAD gazette; weekly. v.4-date. 1872-date....qr625.05 R1572

RAILWAY age; weekly. v.18-date. 1893-date.....qr625.05 R1575
v.21-30, 1896-1900, wanting.

RAILWAY and engineering review; weekly. v.26-date. 1886-dateqr625.05 R157
v.26-37, no. 13 title reads "Railway review."

RAILWAY and locomotive engineering. *See* Locomotive engineering.

RAILWAY engineering and mechanics. *See* Railway master mechanic.

RAILWAY era; a monthly journal of railway management, equipment and operation, Mar.-Aug. 1899. v.21.
1899qr625.05 R1573

RAILWAY master mechanic; monthly. v.13-date. 1890-dateqr625.05 R1571
Being a continuation of "Railway purchasing agent."
v.17-18, no.5 title reads "Railway engineering and mechanics."
v.18, no.6, June 1895, wanting.

RAILWAY review. *See* Railway and engineering review.

ROADMASTERS' ASSOCIATION OF AMERICA.

Proceedings of the annual convention (5th-8th, 10th, 12th-date), 1887-1890, 1892, 1894-date. 1887-date.....r625.05 R53p
 With the 19th convention the name changed to Roadmasters' and maintenance of way association of America.

Reports adopted and papers accepted at the conventions from 1883 to 1893, inclusive. 1894.....r625.05 R53

ST. LOUIS RAILWAY CLUB.

Official proceedings; monthly, June 1898-date. v.3-date.
 1898-dater625.05 S14
 April 1899 wanting.

TRAVELING ENGINEERS' ASSOCIATION.

Proceedings of the annual convention (1st-date), 1893-date. 1893-date.....r625.05 T69
 1st-3d title reads "Report of proceedings of the annual convention."
 Proceedings of the 9th convention, 1901, wanting.

WESTERN RAILWAY CLUB.

Proceedings, Sept. 1889-date. v.2-date. 1889-date....r625.05 W56
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MICHAEL, William Henry, & Will, J. S.

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v.15-date title reads "Journal."

v.16 contains "Papers read before the Sanitary institute, 1876-94," being an index to the "Transactions," v.1-15.

628.1 Waterworks. Water-supply

BAKER, Moses Nelson.

Potable water and methods of detecting impurities. 1899..628.1 B17

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CINCINNATI—Commissioners of waterworks.

Report on the investigations into the purification of the

Ohio river water, for the improved water supply of the

city of Cincinnati, O. 1899.....r628.1 C48

Tests were made of several systems of purification. Full reports of the results are given.

FANNING, John Thomas.

Practical treatise on hydraulic and water-supply engineer-

ing. 1893.....628.1 F21

The same. 1896.....r628.1 F21

FITZGERALD, Desmond.

Short description of the Boston water-works. 1895.....r628.1 F57

FOLWELL, Amory Prescott.

Water-supply engineering; the designing, construction and

maintenance of water-supply systems, both city and

irrigation. 1900.....628.1 F73

The same. 1900.....r628.1 F73

FUERTES, James Hillhouse.

Water and public health; the relative purity of waters from

different sources. 1897.....628.1 F97

GOODELL, John.

Water-works for small cities and towns. 1899.....628.1 G62

Describes standard American methods of design and construction. Intended to be available for officials not having an engineering education, and so is rather elementary in treatment.

GREENWELL, Allan, & Curry, W. T.

Rural water supply; a handbook on the supply of water

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tricts. 1896.....628.1 G85

KÖNIG, Joseph.

Die verunreinigung der gewässer; deren schädliche folgen

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The different industries are considered separately, the most suitable methods of purification being fully described.

McPHERSON, John Ambrose.

Waterworks distribution; a practical guide to the laying

- out of systems of distributing mains for the supply of water to cities and towns. 1900.....628.1 M22
Short description of standard British practice by an experienced engineer.
- MANUAL of American water-works, with summaries for each state and group of states; ed. by M. N. Baker, 1888-91, 1897. 1st-4th issue. 1889-97.....r628.1 M34
"Describing works as they have been developed and are operated day by day in 3,350 cities, towns and villages of the United States and Canada." *Prospectus*.
- PHILADELPHIA—Commission on the extension and improvement of the water supply.
Report to the mayor. 1899.....r628.1 P49
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- PITTSBURGH, CHAMBER OF COMMERCE.
Report of the joint commission of the Chamber of commerce of Pittsburgh, Engineers' society of western Pennsylvania, Allegheny county medical society and Iron City microscopical society, on the present condition and improvement of the water supply of Allegheny county, 1894. 1894.....r628.1 P67
- SISLEY, Richard.
London water supply. 1899.....qr628.1 S62
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- TUDSBURY, J. H. T. & Brightmore, A. W.
Principles of waterworks engineering. 1897.....628.1 T82
- TURNEAURE, Frederick Eugene, & Russell, H. L.
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Bibliography at the end of each chapter.
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"Without attempting to take up the endless details which constitute so large a part of water supply engineering, but which, for the most part, can only be learned by actual practice, the authors have stated briefly the principles of the art, and have usually given at least an idea of the basis upon which each rests...By far the most complete treatment of the subject which has yet appeared." *Allen Hazen*, 1901.
- WEGMANN, Edward.
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- OHIO—Health board.
Preliminary report of an investigation of rivers and deep ground waters of Ohio as sources of public water supplies, 1897/98. 1898.....r628.11 O18
- HAZLEHURST, James Nisbet.
Towers and tanks for water-works; the theory and practice of their design and construction. 1901.....628.12 H38
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Notice sur les travaux de l'aqueduc et du parc agricole d'Achères. 1897.....qr628.14 B36
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- UNITED STATES—Washington aqueduct tunnel committee.
Report of the joint select committee to investigate the work performed upon the Washington aqueduct tunnel,

- recommending the discontinuance of the tunnel and presenting a plan for improving the water supply of the city of Washington; with appendix. 1889. (50th cong. 2d sess. Senate. Doc. no. 2686.).....r628.14 U25
- AMERICAN WATER WORKS ASSOCIATION.
- Report of the special committee on electrolysis. 1900....628.15 A51
- The same.* 1900.....r628.15 A51
- Reprinted from the "Proceedings of the twentieth annual meeting of the American water works association," 1900.
- MAURY, Dabney H.
- Electrolysis of underground metal structures.....628.15 A51
- The same.*.....r628.15 A51
- Describes the effects of stray electric currents on water and gas mains, etc. Gives results of a number of tests.
- Bound with American water works association's "Report of the special committee on electrolysis."

628.16 Purification. Filtration

COLLET, Harold.

Water softening and purification. 1895.....628.16 C69

Contents: Water supplies.—Water for steam boilers.—Water for manufacturing and technical processes.—Chemistry of water softening.—Reagents for softening and clarifying water.—Clarification.—Drinking water.—Testing water.—Tables.

Practical and very readable.

COREIL, François.

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FUERTES, James Hillhouse.

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Study of the engineering features of the design, construction and operation of settling-basins, slow and rapid filters and clear-water reservoirs.

"Compact and clear manual, equally useful to the designing engineer and the general reader." *Engineering record*, 1901.

FULLER, George W.

Report on the investigations into the purification of the Ohio river water at Louisville, Ky., made to the president and directors of the Louisville water company.

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GARRETT, John Henry.

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HAZEN, Allen.

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Contents: Composition.—Influences.—Désordres.—Remèdes.—Eaux résiduaires.—Épuration.—Analyse.
Treats of the effects of the various impurities of waters on their use for industrial purposes and of the apparatus and processes used to purify them.
- MASON, William Pitt.
 Water-supply, (considered principally from a sanitary standpoint). 1902.....628.16 M45w
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 Contract and specifications for filters, basins and appurtenances situate in O'Hara township, Penna.; contract no.1. 1902.....r628.16 P674
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- PULLEN, William Wade Fitzherbert.
 Water-softening and filtering apparatus for locomotive purposes at the Taff vale railway company, Penarth Dock station, near Cardiff. 1889.....665.4 B83
 Reprinted from the "Minutes of proceedings of the Institution of civil engineers," v.97.
 Brief paper, with drawing, of a plant using the Porter-Clark process. Bound with other pamphlets.
- RAFTER, George W.
 On the use of the microscope in determining the sanitary value of potable water; with special reference to the biology of the water of Hemlock lake, N. Y.r589.95 C69
 Read before the section of microscopy, Rochester academy of science. Bound with other pamphlets.
- RIDEAL, Samuel.
 Water and its purification; a handbook for the use of sanitary officers. 1897.....628.16 R43
- UNITED STATES—District of Columbia committee.
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GRAY, Samuel M.

Proposed plan for a sewerage system for the city of Providence, R. I. 1884.....r628.2 G81
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MOORE, E. C. S.

Sanitary engineering; a practical treatise on the collection, removal and final disposal of sewage and the design and construction of works of drainage and sewerage. 1898r628.2 M87
"List of authorities," p.21-24.

SAVAGE, Edward Ballard.

Sewerage and sewage disposal of a small town. [1895.]...628.2 S26

WARING, George Edwin.

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OGDEN, Henry Neely.

Sewer design. 1899.....628.24 O17
"Valuable as a clear, up-to-date presentation of the scattered material of the subject." *Municipal engineering*, 1899.

628.3 Disposal of sewage

BARWISE, Sidney.

Purification of sewage; a brief account of the scientific principles of sewage purification and their practical application. 1899.....628.3 B28
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CORFIELD, William Henry.

Treatment and utilisation of sewage. 1887.....628.3 C81

DIBDIN, William Joseph.

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"Literatur-verzeichniss," p.13-16.
Summarizes present (1901) practice in concise form.

KIERSTED, Wynkoop.

Discussion of the prevailing theories and practices relating
to sewage disposal. 1894.....628.3 K25

RAFTER, George W. & Baker, M. N.

Sewage disposal in the United States. 1900.....qr628.3 R14

Contents: Preliminary discussion.—The infectious diseases of animals.
—On the pollution of streams.—The self-purification of running
streams and the rational view in relation to the disposal of sewage
by discharge into tide-water.—The composition of sewage muds.—Legal
aspects of the case.—Quantity of sewage and variation in rate of flow.
—General data of sewage disposal.—Discharge into tidal or other
large bodies of water.—On nitrification and the nitrifying organism.—
Chemical precipitation.—Broad irrigation.—On silos and their use in
sewage farming.—Intermittent filtration.—Sub-surface irrigation.—The
disposal of manufacturing wastes.—On the temperature of the air and
of natural soils, and its relation to sewage purification by broad irri-
gation and intermittent filtration.—On beggiatoa alba and its relation
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RIDEAL, Samuel.

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The same. 1896.....r628.3 R55

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The same. 1896.....r628.3 W22

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DENTON, Eardley Fraser Bailey.

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628.4 Municipal sanitation. Street cleaning

MAXWELL, William H.

Removal and disposal of town refuse. 1898.....628.4 M52

WARING, George Edwin.

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Contents: Observations on street-cleaning methods in European cities.—
Review of the general work of the Department of street cleaning of
New York.—Report of the snow inspector.—The adjustment of labor
questions by the "Committee of 41" and the "Board of conference."
Supplement to "Municipal affairs," v.2, no.2.

Street-cleaning and the disposal of a city's waste; methods

and results and the effect upon public health, public

morals and municipal prosperity. 1898.....628.4 W22

Chiefly a description of Col. Waring's work as head of the Department
of street cleaning of New York. Contains also notes on street cleaning
in the larger European cities.

GOODRICH, W. Francis.

- Economic disposal of towns' refuse. 1901. (Engineering times library.).....628.44 G62
 "Works consulted," p.321-322.
 Chiefly a treatise on the design, construction and operation of refuse destructors. Summarizes the practice in all parts of the world.

628.53 Smoke abatement

COAL SMOKE ABATEMENT SOCIETY.

- Annual report, balance sheet and list of subscribers.
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COMMITTEE FOR TESTING SMOKE PREVENTING APPLIANCES.

- Report, 1895.....qr628.53 C73
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LEIGH, John.

- Coal-smoke; report to the health and nuisance committees of the corporation of Manchester, Eng. 1883.....r628.53 L56

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No more published.

POPPLEWELL, William Charles.

- Prevention of smoke combined with the economical combustion of fuel. 1901.....628.53 P81
Contents: Fuels and combustion.—Combustion in ordinary hand-fired boilers.—Stoking by mechanical means.—Powdered fuel firing.—Gaseous fuel.—The testing of boilers, and smoke observations.—Some standard smoke tests.—The legal aspect of the smoke question.—The means to be adopted for lessening the smoke in our atmosphere.

SEINE, DÉPARTEMENT DE LA—Préfecture.

- Concours pour la suppression des fumées produites par les foyers de chaudières à vapeur; rapport de la Commission technique.....qr628.53 S46
 Account of an exceedingly thorough set of tests of various smoke-consuming devices made in 1894-97. Typical specimens of the various classes were given long working trials. Probably the most complete investigation yet made (1901).

628.6 House sanitation. House drainage

BROWN, Glenn.

- Healthy foundations for houses. 1885.....628.6 B78h
 Reprinted from the "Sanitary engineer."

- Water-closets; a historical, mechanical and sanitary treatise. 1884.....628.6 B78
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- COLEMAN, Thomas Everit.
Sanitary house drainage; a handbook for architects, engineers and builders. 1896.....628.6 C68
Series of articles which appeared in "Building news."
"Gives the sanitary principles underlying the correct design of domestic drainage systems."
- CORFIELD, William Henry.
Dwelling houses; their sanitary construction and arrangements. 1880.....628.6 C81
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- DOMESTIC house planner and sanitary architect; papers on the principles of house planning and arrangement and of sanitary construction, by practical writers. 1891....628.6 D71
- GERHARD, William Paul.
House-drainage and sanitary plumbing. 1890.....628.6 G31
Concise statement of the rules to be followed and the means and devices which should be used. Intended for both professional plumbers and laymen.
- MAGUIRE, William R.
Domestic sanitary drainage and plumbing. 1896.....628.6 M25
Handbook for plumbers, dealing with all forms of work for dwellings.
Author is (1896) teacher of plumbing in the City and guilds of London institute.
- POORE, George Vivian.
The dwelling house. 1897.....628.6 P81
Author is a physician and considers his subjects from the sanitary and hygienic point of view, suggesting improvements in drainage, ventilation and the disposal of refuse.
- TEALE, Thomas Pridgin.
Dangers to health, domestic sanitary defects. 1883.....628.6 T26
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Diagrams illustrating dangerous defects in domestic plumbing.
- WARING, George Edwin.
How to drain a house; practical information for householders. 1895.....628.6 W22
"In the author's clear and practical style. He wastes no time in the discussion of varieties of method, but dogmatically expresses his opinion as to the best. That is what the ordinary householder wants, and as this opinion is the outcome of intelligence and experience, he is perfectly safe in adding it to his library of practical economics as an untechnical, straightforward, useful book." *Nation*, 1896.
Sanitary drainage of houses and towns. 1876.....628.6 W22s

628.8 Ventilation

- BALDWIN, William James St. John.
Ventilation of the school room. 1901.....628.8 B19
Outlines in popular language present (1901) knowledge of the subject.
- BILLINGS, John Shaw.
Ventilation and heating. 1893.....b628.8 B48
Standard work, dealing chiefly with ventilation. Written from the point of view of the physician, rather than that of the engineer.
- LEEDS, Lewis W.
Treatise on ventilation; comprising seven lectures de-

livered before the Franklin institute, Philadelphia, 1866-

68. 1882.....r628.8 L53

629.1 Motor carriages

ALLEN, James T. *comp.*

Digest of United States automobile patents from 1789 to 1899, including all patents officially classed as traction-engines, with lists of patents in the classes of portable-engines, traction-wheels, electric locomotives and electric railway battery systems. 1900.....qr629.1 A42

The same; supplement, July 1899 to Jan. 1902.....qr629.1 A42s

BEAUMONT, William Worby.

Cantor lectures on mechanical road carriages. 1896.....q629.1 B35

Motor vehicles and motors; their design, construction and working by steam, oil and electricity. 1900.....q629.1 B35m

Full, reliable treatise, including a general view of the subject, with details of nearly all modern motors.

BRAMWELL, Clarence C.

Construction of a gasolene motor vehicle; ed. by E. W.

Graef. 1901.....629.1 B69

First published in the "Motor vehicle review."

Useful to those desiring acquaintance with the mechanical details and practical operation of gasoline automobiles, as well as to those wishing to construct them. Contains dimensioned drawings.

FARMAN, Dick.

Auto-cars; cars, tramcars and small cars. 1896.....629.1 F24

GRAFFIGNY, Henri de, (*pseud. of* Raoul Marquis).

Manuel du constructeur et du conducteur de cycles et d'automobiles. 1897.....629.1 G76

HISCOX, Gardner Dexter.

Horseless vehicles, automobiles, motor cycles operated by steam, hydro-carbon, electric and pneumatic motors.

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Contains a chapter "How to build an electric cab," with detailed drawings.

KNIGHT, John Henry.

Notes on motor carriages, with hints for purchasers and

users. 1896.....629.1 K34

LAVERGNE, Gérard.

Manuel théorique et pratique de l'automobile sur route, vapeur, pétrole, électricité. 1900.....r629.1 L38

LAYRIZ, Otfried.

Mechanical traction in war for road transport, with notes on automobiles generally; tr. by R. B. Marston. 1900..q629.1 L44

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Petroleum motor-cars. 1898.....629.1 L76

Illustrates and describes in full detail the best known types of petroleum automobiles.

SENCIER, Gaston, & Delasalle, A.

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SENNETT, Alfred Richard.

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- road locomotion, [with other papers]. 1896.....629.1 S47
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 Motor cars; or, Power-carriages for common roads.
 1897629.1 T24
 WOODS, C. E.
 Electric automobile; its construction, care and operation.
 1900629.1 W86
 Not intended as an engineering treatise, but for those interested in the
 purchase and use of automobiles. Technical language is avoided.

629.105 Periodicals

- AUTOMOBILE magazine; monthly, Oct. 1899-date. v.1-
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 AUTOMOBILE review; a practical journal of automobile
 engineering and transportation; monthly. v.4-date.
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 HORSELESS age; monthly. v.1-date. 1895-date.....qr629.105 H81

630 Agriculture

- ADAMS, Edward F.
 Modern farmer in his business relations; a study of some
 of the principles underlying the art of profitable farm-
 ing and marketing, and of the interests of farmers as
 affected by modern social and economic conditions and
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 BAILEY, Liberty Hyde.
 Horticulturist's rule-book. 1895. (Garden-craft series.)..r630.8 B16
 Compendium of useful information for fruit-growers, truck-gardeners,
 florists and others. A condensed manual of all rules and receipts and
 figures used by horticulturists; as insecticides, fungicides, means of
 combating all the important insects and fungi, planting-tables, dates
 of planting, yields, estimates for heating greenhouses, greenhouse rules
 of practice, tables of weights and measures, legal and customary stand-
 ards, grafting waxes, methods of packing and storing fruits and veg-
 etables, and thousands of other useful facts.
 BAILEY, Liberty Hyde, *ed.*
 Principles of agriculture; a text-book for schools and rural
 societies. 1898. (Rural science series.).....630 B16
 COBBETT, William.
 Cottage economy, containing information relative to the
 brewing of beer, making of bread, etc., with The poor
 man's friend. 1848.....r630 C63
 COOKE, Samuel.
 Foundations of scientific agriculture. 1897.....630 C78
 CROZIER, William, & Henderson, Peter.
 How the farm pays. 1884.....630 C89
 GREELEY, Horace.
 What I know of farming. 1871.....r630 G82
 "Of all the books that have served as a foot-ball of fun for men who

were utterly ignorant of its subject, none has been more bandied back and forth than Mr. Greeley's bucolic effusions...It contains the unrestrained expressions of a man of much ability, on a subject of which he really knows a great deal, and to which he has always given his best attention." *Nation*, 1871.

HEINZE, Robert.

Anleitung zur chemischen untersuchung und rationellen
beurtheilung der landwirthschaftlich wichtigsten stoffe.

1883. (Hartleben's chemisch-technische bibliothek.)...r630 H42

JOHNSTON, James Finlay Weir.

Lectures on the applications of chemistry and geology to ag-
riculture. 1850r630 J36

KING, Franklin Hiram.

Text book of the physics of agriculture. 1901630 K26

Contents: Introduction.—Physics of the soil.—Ground water, wells and
farm drainage.—Principles of rural architecture.—Farm mechanics.—
Principles of weather forecasting.

Professor King is an eminent authority on matters pertaining to the soil.
This book is designed for the student of agriculture and the progress-
ive farmer.

KIRBY, Mary, & Elizabeth.

Aunt Martha's corner cupboard; or, Stories about tea,
coffee, sugar, rice, etc. 1898.....j630 K28

NORTON, John Pitkin.

Elements of scientific agriculture. 1855.....r630 N46

PENNSYLVANIA AGRICULTURAL SOCIETY.

Hints for American husbandmen. 1827.....r630 P39

ROBERTS, Job.

Pennsylvania farmer; a selection from the most approved
treatises on husbandry, interspersed with observations
and experiments. 1804.....r630 R53

STORER, Francis Humphreys.

Agriculture in some of its relations with chemistry. 2v.
1894630 S88

BEECHER, Henry Ward.

Plain and pleasant talk about fruits, flowers and farming.
1859r630.4 B37

[COLLECTION of reports and addresses on agriculture.]
[1830-51.]r630.4 C69

MITCHELL, Donald Grant.

My farm of Edgewood. 1891.....630.4 M74
The same. 1863.....r630.4 M74

Delightful in its literary quality, and interesting in its account of the
alteration and improvement of a small place in Connecticut.

630.5 Periodicals

AMERICAN agriculturist, 1842-44, 1858-76, 1878-88, 1891-92,
1897-date. v.1-3, 17-35, 37-47, 50-51, 60-date. 1843-
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AMERICAN horticultural annual, 1867.....r630.5 A512

CULTIVATOR; monthly, Mar. 1834-Feb. 1838. v.1-4, in 1.

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EXPERIMENT station record; monthly, Sept. 1889-date.

- v.1-date. 1889-date. (United States—Experiment stations office.).....r630.5 E98
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 v.1 bimonthly.
 "A periodical containing a condensed record of the contents of the bulletins and reports issued by the agricultural experiment stations of the United States, and also a brief review of agricultural science of the world."
 A card subject index to the publications of the various experiment stations, issued by the Office of experiment stations and containing brief abstracts of the articles indexed, will be found at the reference desk.
GARDENERS' chronicle; weekly. v.1, pt.2-v.21. 1841-61..qr630.5 G17
 Title-page of v.4-21 reads "Gardeners' chronicle and agricultural gazette."
MONTHLY journal of agriculture; ed. by J. S. Skinner, July 1845-June 1847. v.1-2. 1846-47.....r630.5 M86
 Binder's title and title-page of v.2 read "Journal of agriculture."
YANKEE farmer and news letter, devoted to agriculture, horticulture and the useful arts; ed. by S. W. Cole; weekly. v.4-6, in 1. 1838-40.....qr630.5 Y14
 v.5-6 title reads "Yankee farmer and New England cultivator."

630.6 Societies. Government publications

- CONNECTICUT**—Agriculture, Board of.
 Annual report (34th) of the secretary, 1900. 1901.....r630.6 C75
KANSAS—Agriculture, State board of.
 Biennial report (3d), for the years 1881-82. 1883.....r630.6 K12
MAINE STATE COLLEGE—Agricultural experiment station.
 Annual report, 1892. 1893.....r630.6 M26
MASSACHUSETTS—Agricultural experiment station, Amherst.
 Annual report (11th-12th) of the board of control, 1893-1894. 1894-95r630.6 M45
 In 1895 the Hatch experiment station and the Massachusetts agricultural experiment station were consolidated under the title Hatch experiment station of the Massachusetts agricultural college.
OHIO—Agriculture, State board of.
 Annual report (17th-18th), for the year 1862-63, with an abstract of the proceedings of the county agricultural societies. 1863-64.....r630.6 O18
 Contains also Reports (10th-11th), 1863-64, of the Ohio pomological society.
AGRICULTURE of Pennsylvania; containing reports of the State board of agriculture, the State agricultural society, the State dairymen's association, the State horticultural association, and the State college, for 1878-1894. 1879-94r630.6 P399
 For earlier reports see Pennsylvania—Agriculture, State board of; also Pennsylvania state agricultural society.
 For later reports see Pennsylvania—Agriculture, Department of. Annual report.
PENNSYLVANIA—Agriculture, Department of.
 Annual report (1st-date), 1895-date. 1896-date.....r630.6 P399a
 For earlier reports see Agriculture of Pennsylvania.
 pt.2 of 1895 and 1897 is the report of the Division of forestry.
 pt.2 of 1898 was never published.
Bulletin. no.6, 8-10, 16-17, 20-22, 26-35, 37, 39-date. 1896-dater630.6 P399b
 no.78, 108, 110 wanting.

no.27-30 will be found in qr630.6 P399a for 1897; no.70 in qr630.6 P399a for 1900.

For contents see contents book, p.364; kept at the reference desk.

PENNSYLVANIA—Agriculture, State board of.

Annual report (1st-18th), for the year 1877-1894. (In Agriculture of Pennsylvania, 1878-1894.).....r630.6 P399

1st report is bound separately.

For earlier reports see Pennsylvania state agricultural society.

For later reports see Pennsylvania—Agriculture, Department of. Annual report.

PENNSYLVANIA STATE AGRICULTURAL SOCIETY.

Annual report of the transactions (1st-11th), 1853-1876.

1854-76.r630.6 P39

6th report includes the reports for 1861-63; 7th, for 1864-70; 8th, for 1871-72; 9th, for 1872-73.

The same, 1878-1894. (In Agriculture of Pennsylvania, 1878-1894.).....r630.6 P399

PHILADELPHIA SOCIETY FOR PROMOTING AGRICULTURE.

Memoirs, containing communications on various subjects in husbandry and rural affairs. v.2, 4. 1814-18.....r630.6 P49

UNITED STATES—Agriculture, Department of.

Annual report of the secretary [commissioner until 1889], for the year ending June 30, 1862-date. 1863-date.....r630.6 U25

Index for years 1837 to 1893 inclusive. 1896.

For author index to these reports see r016.63 U25.

From 1841-1861 the report was published by the commissioner of patents and forms a part of his annual reports, r608.73 U25a.

The reports for 1895, 1897, 1898, 1899 will be found in the sheep bound set of congressional documents, numbered respectively, 3390, 3651, 3768, 3929.

From 1894-date this report is published in two parts; the first part being the administrative report, and the second part, called the "Yearbook," containing scientific papers for the information of farmers. The "Yearbook" is catalogued separately, r630.6 U25a.

No report was issued in 1846.

Farmers' bulletin, June 1889-date. no.1-date. [v.1-date.]

1889-dater630.6 U2534

For a list of Farmers' bulletins, no.1-132, see Bulletin no.6 of the Publications division of the Department of agriculture, p.26-33, r016.63 H23.

Report. no.32, 42, 57-date. 1884-date.....r630.6 U25rep

For contents see contents book, v.2, p.224; kept at the reference desk.

no.32 will be found in r633.21 V22; no.42 in r016.63 U25; no.57 in r632 U253c.

"Since its establishment in 1862 the Department of Agriculture has issued various publications of a miscellaneous character not properly belonging to any of its established series, which have up to the present time [1899] remained practically unclassified. It is now proposed to bring all these miscellaneous publications together in a series, to assign numbers to those which have heretofore been referred to as 'unnumbered reports,' and to continue the series as Reports of the U. S. Department of agriculture." *Report no.39.*

Report of the statistician; new series. no.59-date. [v.6-date.] 1889-date.....r630.6 U25r

no.65, 74, 80, 101-102, 104, 109, 111-133, 136, 139-154 wanting.

Yearbook, 1894-date. 1895-date.....r630.6 U25a

Index, 1894-1900.

Previous to 1894 the information contained in the "Yearbook" will be found in the annual report of the department. From 1894-date the report is published in two parts; the first part being the administrative report, the second part, called the "Yearbook," containing a general account of the operations of the department during the year, scientific papers for the information of farmers, and statistical tables and information useful for reference.

UNITED STATES—Chemistry bureau.

Bulletin. no.13-15, 17-37, 39-date. 1887-date.....r630.6 U2533
For contents see contents book, v.2, p.246-249; kept at the reference desk.

UNITED STATES—Experiment stations office.

Bulletin. no.1-date. [v.1-date.] 1889-date.....qr630.6 U2534b
For partial contents see contents book, p.173; kept at the reference desk.
Contains many articles on the chemistry and nutritive value of foods.
no.119-120, 124, 127 wanting.

UNITED STATES—Hawaii agricultural experiment station.

Bulletin. no.1, 3. 1901-04.....r630.6 U2535
no.1. Chickens and their diseases in Hawaii, by T. F. Sedgwick.
no.3. Insecticides for use in Hawaii, by D. L. Van Dyne.

UNITED STATES—Plant industry bureau.

Bulletin. no.1-date. 1901-date.....qr630.6 U2532
For contents see contents book, p.301; kept at the reference desk.
The Bureau of plant industry, which was organized July 1, 1901, includes Vegetable pathological and physiological investigations, Botanical investigations and experiments, Grass and forage plant investigations, Pomological investigations, and Gardens and grounds, all of which were formerly separate divisions, and also Seed and plant introduction, the Arlington experimental farm. Tea investigations and experiments, and the Congressional seed distribution. Beginning with the date of organization of the bureau, the independent series of bulletins of each division was discontinued, and all are now published as one series of the bureau.

UNITED STATES—Statistics division. (Department of agriculture.)

Bulletin. no.1-date. 1890-date.....r630.6 U25re
For contents see contents book, v.2, p.260; kept at the reference desk.
no.1-8 title reads "Report."
no.4, 18 wanting.

MICHIGAN STATE AGRICULTURAL COLLEGE—Experiment station.

Bulletin. no.151-188. 1898-1901.....r630.7 M66
no.163, 176, 178, 181-185 wanting.

630.9 History of agriculture

PELL, Albert.

Making of the land in England. 1899.....630.942 P27
How it was made fit for cultivation, and the cost of improvement.

WALLACE, Robert, b. 1853.

Farming industries of Cape Colony. 1896.....r630.968 W17

UNITED STATES—Agriculture, Department of.

Album of agricultural statistics of the United States.

1889qr630.973 U25
Consists of 16 maps of the United States, each presenting a separate topic, as: Percentage of unoccupied and of farm land, Acreage in corn, Acreage in wheat, etc.

CONNECTICUT—Agriculture, Board of.

Handbook of Connecticut agriculture; prepared by T. S.

Gold. 1901.....r630.974 C75

BURKETT, Charles William.

History of Ohio agriculture; a treatise on the development of the various lines and phases of farm life in Ohio.

1900630.977 B91

WALLACE, Robert, b. 1853.

Rural economy and agriculture of Australia and New

- Zealand. 1891.....630.994 W17
Mr Wallace gives an account of his travels through the colonies, but by far the greater part of the book is devoted to the state of agriculture, cattle and sheep raising.

631 Soil

BOSWELL, George.

- Treatise on watering meadows. 1779.....r635.2 A14
Bound with Abercrombie's "Garden mushroom."

KING, Franklin Hiram.

- The soil; its nature, relations and fundamental principles of management. 1895. (Rural science series.).....631 K26

ROBERTS, Isaac Phillips.

- Fertility of the land. 1897. (Rural science series.).....631 R53
Sketches the factors on which the fertility of the soil depends, and the relationship of farm-practice to its maintenance and increase.
By the director of the College of agriculture of Cornell university (1897).

UNITED STATES—Soils bureau.

- Bulletin. no.1-date. [v.1-date.] 1895-date.....r631 U25

SNYDER, Harry.

- Chemistry of soils and fertilizers. 1899.....631.2 S67
Condensed account of the methods of conserving the fertility of the soil, and of the economic use of manures.

631.5 Fertilizers

CHYNOWETH, James Bennett, & Bruckner, W. H.

- American manures, and farmers' and planters' guide. 1871..631.5 C47
[COLLECTION of pamphlets on fertilizers.] [1891-1901.]..r631.5 C69
PASSON, Max.

Das Thomasmehl; seine chemie und geschichte. 1901....r631.5 P28
VOORHEES, Edward Burnett.

- Fertilizers. 1898. (Rural science series.).....631.5 V37

631.7 Drainage

WARING, George Edwin.

- Draining for profit and draining for health. 1896.....631.7 W22
Stands for utmost thoroughness; valuable chapter on sewerage.

631.8 Irrigation

BAROIS, J.

- Irrigation in Egypt; tr. by A. M. Miller. 1889. (United States. 50th cong. 2d sess. House. Mis. doc. no. 134.)qr631.8 B25
Translation from the French, of a report by the secretary to the Ministry of public works in Egypt.

BROOK, Harry Ellington.

- Irrigation in southern California; issued for the use of the delegates to the International irrigation congress, Oct. 10-15, 1893. 1893.....634.231 F52
Bound with Fish's "Profits of orange culture in southern California."

BROWN, John Croumbie.

- Water supply of South Africa and facilities for the storage

- of it. 1877.....r631.8 B79
- HINTON, Richard Josiah.
Irrigation in the United States; its extent and methods, with digest of laws governing water supply. 1887. (United States. 49th cong. 2d sess. Senate. Mis. doc. no.15.)....r2450
- KING, Franklin Hiram.
Irrigation and drainage; principles and practice of their cultural phases. 1899. (Rural science series.).....631.8 K26
- POWELL, John Wesley.
Report on the lands of the arid region of the United States, with a more detailed account of the lands of Utah, with maps. 1879. (United States—Geographical and geological survey of the Rocky mountain region. Reports.)..qr631.8 P87
- UNITED STATES—Geological survey.
Water-supply and irrigation papers. no.1—date. 1896—dater631.8 U2533
For contents see contents book, v.2, p.257; kept at the reference desk.
no.1-45 are indexed in Bulletin 177 of the survey.
- UNITED STATES—Irrigation and reclamation of arid lands, Select committee on.
Report of the special committee on the irrigation and reclamation of arid lands. 6pts. in 2v. 1890. (51st cong. 1st sess. Senate. Report no.928.).....r631.8 U253
pt.1. Report and views of the minority.
pt.2. The Northwest.
pt.3. Great basin region and California.
pt.4. Rocky mountain region and the great plains.
pt.5. Statements of officers of the Geological survey.—Consular reports.
—General report of irrigation in the United States.—Miscellaneous papers.
pt.6. Irrigation in the United States, by R. J. Hinton.
- UNITED STATES—Irrigation inquiry office.
Report on irrigation. 4pts. in 1v. 1892. (52d cong. 1st sess. Senate. Ex. doc. no.41.).....r631.8 U2534
pt.1. Report on irrigation and the cultivation of the soil thereby, by R. J. Hinton.—pt.2. Artesian and underflow investigation; final report of the chief engineer, E. S. Nettleton.—pt.3. Final geological reports of the artesian and underflow investigation between the 97th meridian and the foothills of the Rocky mountains, by Robert Hay.—pt.4. Final report on the mid-plains division of the artesian and underflow investigation between the 97th meridian and the foothills of the Rocky mountains, by J. W. Gregory, and a special report on certain artesian conditions in South Dakota, by F. F. B. Coffin.
- UNITED STATES—Signal office.
Irrigation and water storage in the arid regions. 1891.
(51st cong. 2d sess. House. Ex. doc. no.287.)....qr631.8 U2532
- WILLCOCKS, William.
Egyptian irrigation. 1899.....qr631.8 W73
Author is the late director-general of reservoirs, in Egypt, and has been connected with many of the most important features of the work since 1883.
"A mine of valuable information to which all future engineers will turn."
Engineering, 1900.

631.9 Farm implements

DEERING HARVESTER CO.

Official retrospective exhibition of the development of harvesting machinery, for the Paris exposition of 1900.

- 1900r631.9 D37
 Traces the development of mowing and reaping machinery, illustrating and describing the various inventions for harvesting.
 Contains a list of official decisions of United States court and Patent office cases, and of publications on the subject.
- RITCHIE, Robert.
 Farm engineer; a treatise on barn machinery, particularly on the application of steam and other motive powers to the thrashing machine. 1849.....qr631.9 R49
- STABLER, Edward.
 Overlooked pages of reaper history. 1897.....r631.9 S77
 Reprint of three pamphlets on the manufacture of reaping machines.
- SWIFT, Rodney Bartlett.
 Who invented the reaper? 1897.....r631.9 S97
 Repeats McCormick's claims.

632 Pests. Blights. Insects

- BRITISH COLUMBIA—Horticulture, Provincial board of.
 Insect pests and plant diseases; containing remedies and suggestions recommended for adoption by farmers, fruit-growers and gardeners of the province. 1897.....qr632 B75
- COLORADO STATE AGRICULTURAL COLLEGE—Experiment station.
 Colorado's worst insect pests and their remedies. 1898.
 (Bulletin, no.47.).....r632 U253c
 Bound with other pamphlets.
- HUBBARD, Henry Guernsey.
 Insects affecting the orange. 1885. (United States—Entomology division. Special report.).....r557.3 U25b v.2
 Bound with "United States—Geological survey. Bulletin."
- KANSAS UNIVERSITY—Entomology, Department of.
 Bulletin, 1892, 1897, 1899. 1892-99.....r632 K12
Contents: The more destructive grasshoppers of Kansas.—Common injurious insects of Kansas, by V. L. Kellogg.—The honey-bee and its food-plants, with special reference to alfalfa, by S. J. Hunter.—Alfalfa, grasshoppers, bees; their relationship, by S. J. Hunter.
- MICHIGAN STATE AGRICULTURAL COLLEGE—Experiment station.
 Spraying calendar. 1899. (Special bulletin, no.12.).....qr632 M66
- NATIONAL CONVENTION FOR THE SUPPRESSION OF INSECT PESTS AND PLANT DISEASES BY LEGISLATION, Washington, D. C. 1897.
 Proceedings of the convention held Mar. 5-6, 1897; ed. by B. T. Galloway. 1897. (United States—Agriculture, Department of.).....r632 U253c
 Bound with other pamphlets.
- NEW YORK (state)—Entomologist.
 Report (4th-date) on injurious and other insects of the state of New York, 1887-date. 1888-date. (In New York (state)—Museum. Annual report, 1887-date.)...qr507 N26
 Reports (14th-date) are issued as numbers of the Bulletin of the New York state museum.
 Reports (1st-17th), 1881-1901, are indexed in Bulletin no.66 of the New York state museum, qr507 N26b.

UNITED STATES—Entomological commission.

Report (1st-5th), 1877-1890. 1878-90.....r632 U25

v.1. Rocky mountain locust.

v.2. Rocky mountain locust.—Western cricket.

v.3. Rocky mountain locust.—The army worm, canker worms and the Hessian fly.—Scientific results.

v.4. Revised edition of Bulletin no.3 and the final report on the cotton worm.

v.5. Revised edition of Bulletin no.7 on insects injurious to forest and shade trees.

No more published.

"The Commission was attached to the United States Geological and Geographical Survey of the Territories, Department of the Interior, until March 3, 1881. The third report of the Commission inaugurates its transfer to the Department of Agriculture."

UNITED STATES—Entomology division.

Bulletin, [old series]. 33 nos. 1880-95.....r632 U253

no.5, 8, 10-13, 15, 18, 21, 26, 30 wanting.

For contents see contents book, v.3, p.312; kept at the reference desk.

Bulletin, new series. no.1-date. [v.1-date.] 1896-date..r632 U253n

Bulletin no.36 is an "Index to Bulletins no.1-30 (new series), 1896-1901."

For contents see contents book, v.3, p.316; kept at the reference desk.

Circulars. 2d ser. no.4-6, 8-11, 13, 16, 19-20, 22, 40. 1894-

1900r632 U253c

Contents: The woolly aphis of the apple.—The clover mite.—The larger corn stalk-borer.—The rose-chaffer.—The harlequin cabbage bug, or calico back.—How to distinguish the different mosquitoes of North America.—Canker-worms.—The imported elm leaf-beetle.—The Mexican cotton-boll weevil.—The carpet beetle, or buffalo moth. The army worm.—Mosquitoes and fleas.—The periodical cicada in 1897.

WEST VIRGINIA UNIVERSITY—Agricultural experiment station.

Bulletin. no.14-16, 21, 31-32, 35, 44, 67-68. 1891-1900....r632 U253c

Contents: The periodical cicada or seventeen-year locust in West Virginia.—Catalogue of West Virginia scolytidae and their enemies.—Catalogue of West Virginia forest and shade tree insects.—Injurious insects and plant diseases.—Preliminary investigation of insect ravages; yellow locust, by A. D. Hopkins.—Raspberry gouty-gall beetle, by A. D. Hopkins.—Farm and garden insects, and experiments with remedies, and Notes of the season, by A. D. Hopkins.—Defects in wood caused by insects.—The Hessian fly in West Virginia and how to prevent losses from its ravages, by A. D. Hopkins.—Practical entomology, by A. D. Hopkins and W. E. Rumsey.

Bound with other pamphlets.

UNITED STATES—Vegetable physiology and pathology division.

Bulletin. 29 nos. 1891-1901.....r632.1 U25

no.4 wanting.

For contents see contents book, v.2, p.244; kept at the reference desk.

Beginning July 1, 1901, the date of the organization of the Plant industry bureau, the independent series of bulletins of the Vegetable physiology and pathology division, the last number of which was 29, was discontinued; it is now published, with the bulletins of the other divisions included under the bureau, as one series of the bureau.

LODEMAN, E. G.

Spraying of plants. 1896. (Rural science series.).....632.5 L76

COMSTOCK, John Henry.

Report upon cotton insects. 1879. (United States—Entomology division.).....r632.6 C73

SANDERSON, Ezra Dwight.

Insects injurious to staple crops. 1902.....632.6 S21

Practical handbook for farmers. The insect pests are grouped according to the crops they attack, i. e. insects injurious to wheat, insects

injurious to cotton, etc. Enough of the life-history and habits of each is given to make plain the reasons for the different remedies employed.

TREAT, Mrs Mary.

Injurious insects of the farm and garden, with a chapter on

beneficial insects. 1889.....632.6 T71

WEED, Clarence Moores.

On the parasites of the lesser apple leaf-roller, *teras*

minutar632 U253c

From the Bulletin of the Illinois state laboratory of natural history, v.3.

Bound with other pamphlets.

633 Grains. Grasses. Fibers

CHURCH, Arthur Herbert.

Food-grains of India. 1886. (South Kensington museum

science handbooks.).....q633 C46

"Bibliographical notes," p.11.

ROCHELEAU, William Francis.

Great American industries; products of the soil. 1898.....j633 R56

Contents: Cereals.—Cotton.—Lumber.—Sugar.—Wheat.

UNITED STATES—Botany division.

Bulletin. no.3, 6, 8, 12-29. 1887-1901.....qr633 U2533

no.26 wanting.

For contents see contents book, v.2, p.234; kept at the reference desk.

Beginning July 1, 1901, the date of the organization of the Plant industry bureau, the independent series of bulletins of the Botany division, the last number of which was 29, was discontinued; it is now published, with the bulletins of the other divisions included under the bureau, as one series of the bureau.

633.1 Cereals

THALER, Richard.

Die müllerei; ein handbuch des mühlenbetriebes. 1894.

(Hartleben's chemisch-technische bibliothek.).....r633.1 T33

Describes the grains used, methods of cleaning and preparing, the grinding, separation of the products, construction and arrangements of mills and various processes of milling. Numerous illustrations and drawings of machinery.

SARGENT, Frederick Leroy.

Corn plants; their uses and ways of life. 1899.....j633.13 S24

Gives in compact form and in readable style a clear account of the six important grain plants of the world—wheat, oats, rye, barley, rice and maize. Explains what corn plants are, indicates their importance to mankind, and narrates the myths and religious customs which have grown up about them. Also describes how the plants are formed, and how their growth and perfection are insured by their various organs. Author shows how well they are adapted for ideal food products for mankind, and gives the history, distribution and uses of each of the six plants.

WILSON, Alexander Stephen.

Bushel of corn. 1883.....r633.13 W76

Corn is here used to mean cereal grains in general, only wheat, barley and oats, however, being considered.

Chapters on the "Weight of a bushel of corn," "Measure-weight above and below average price," "Measure-weight and degrees of ripeness," "Classification of grain," "Percentage of kernel in respect of measure-weight," "Moisture in grain," "Doctoring measure-weight," "Equivalents of different qualities of oats," etc.

TODD, Sereno Edwards.

American wheat culturist. 1868.....633.18 T55

633.21 Grasses

UNITED STATES—Agrostology division.

Bulletin. 25 nos. 1895-1901.....r633.21 U25

Beginning July 1, 1901, the date of the organization of the Plant industry bureau, the independent series of bulletins of the Agrostology division, the last number of which was 25, was discontinued; it is now published, with the bulletins of the other divisions included under the bureau, as one series of the bureau.

VASEY, George.

Agricultural grasses of the United States; also the Chemical composition of American grasses, by Clifford Richardson. 1884. (United States—Agriculture, Department of. Report, no.32.).....r633.21 V22

Illustrations of North American grasses. 2v. 1891-93. (In United States—Botany division. Bulletin, no.12-13.)...qr633 U2533

v.1. Grasses of the Southwest.

v.2. Grasses of the Pacific slope.

633.4 Beet sugar. Maple sugar

[COLLECTION of pamphlets on sugar beets.] [1892-1900]r633.41 C69

McMURTRIE, William.

Report on the culture of the sugar beet, and the manufacture of sugar therefrom in France and the United States. 1880. (United States—Agriculture, Department of. Special reports.).....r633.41 M21

MYRICK, Herbert.

American sugar industry. 1899.....q633.41 M99
History of the growth of the beet sugar industry, more particularly, and a discussion of the tariff question from the producer's standpoint.

RUSH, Benjamin.

Account of the sugar maple-tree of the United States, and of the methods of obtaining sugar from it, in a letter to Thomas Jefferson. 1792.....r633.43 R89
Read before the American philosophical society on the 19th of August 1791.

633.53 Coffee

DELLEN LAERNE, C. F. van.

Brazil and Java; report on coffee-culture in America, Asia and Africa. 1885.....633.53 D39

HEWITT, Robert.

Coffee; its history, cultivation and uses. 1872.....633.53 H49

LOCK, Charles G. Warnford.

Coffee; its culture and commerce in all countries. 1888...633.53 L75
Bibliography, p.257-258.

ROMERO, Matias.

Coffee and india-rubber culture in Mexico; preceded by geographical and statistical notes on Mexico. 1898....633.53 R66

633.57 Tobacco

See also Tobacco, 178

CARVER, Jonathan.

Treatise on the culture of the tobacco plant. 1779.....r635.2 A14
Bound with Abercrombie's "Garden mushroom."

GAVELLUS, Nicholas.

Storia distinta e curiosa del tabacco, concernente la sua
scoperta, la introduzione in Europa e la maniera di col-
tivarlo, conservarlo e prepararlo. 1758.....r633.57 G24

JENIFER, Daniel.

Remarks at the opening of the convention of tobacco
planters of the United States, held in Washington, Dec.
15, 1840. 1840.....r633.57 U25
Bound with other pamphlets.

JENNINGS, James.

Practical treatise on the history, medical properties and
cultivation of tobacco. 1830.....r633.57 J26

KILLEBREW, Joseph Buckner.

Report of the culture and curing of tobacco in the United
States. 1884. (United States—Census office.).....qr633.57 K25

KILLEBREW, Joseph Buckner, & Myrick, Herbert.

Tobacco leaf; its culture and care, marketing and manu-
facture; a practical handbook. 1897.....633.57 K25
"Books on tobacco culture," p.495-496.

LOCK, Charles G. Warnford, ed.

Tobacco; growing, curing and manufacturing. 1886.....r633.57 L75
Bibliography, p.276-280.

TATHAM, William.

Historical and practical essay on the culture and commerce
of tobacco. 1800.....r633.57 T23

UNITED STATES—State department.

Report of the secretary of state transmitting correspon-
dence relative to the tobacco trade between the United
States and foreign countries, Apr. 14, 1840. 1840. (26th
cong. 1st sess. House. Ex. doc. no.229.).....r633.57 U25

633.7 Textiles. Cotton. Hemp

For Textile fabrics, see 677

UNITED STATES—Fiber investigations office.

Report, no.1, 4-11. 1890-98.....r633.7 U25

These reports are by C. R. Dodge.

no.1. Report on flax, hemp, ramie and jute, with considerations upon
flax and hemp culture in Europe. This is the same as the first report
of the Division of statistics, and will be found in r630.6 U25re.no.4. Flax culture for fiber in the United States, including reports on
flax culture in Ireland, in Belgium and in Austria, with statements
relative to the industry in Russia.

no.5. Leaf fibers in the United States.

no.6. Uncultivated bast fibers of the United States.

no.7. The cultivation of ramie in the United States.

no.8. The culture of hemp and jute in the United States.

no.9. Descriptive catalogue of useful fiber plants of the world.

no.10. Flax culture for seed and fiber in Europe and America.

no. 11. Culture of hemp in Europe.
Fiber investigations were begun in the Division of statistics in Nov.
1889. The Office of fiber investigations was established in 1890 and
discontinued June 30, 1898. 11 reports only were published.

BROOKS, Christopher Parkinson.

Cotton; its uses, varieties, fibre structure, cultivation and
preparation for the market and as an article of com-
merce, also the manufacture of cotton seed oil. 1898. .633.71 B77

MONIE, Hugh.

Cotton fibre; its structure, etc.; a treatise descriptive of the
different varieties of cotton and the distinctive features
in the structure of their filaments. 1890.633.71 M82

UNITED STATES—Agriculture and forestry committee.

Report on the condition of cotton growers in the United
States, the present prices of cotton and the remedy,
and on cotton consumption and production. Feb 23,
1895. 2v. in 1. 1895. (53d cong. 3d sess. Senate.
Report no. 896.)r633.71 U25

WILKINSON, Frederick.

Story of the cotton plant. 1899. (Library of useful
stories.)633.71 W72
Concise, readable description of the cotton-plant, its cultivation, handling
at the plantation, and spinning.

BOYCE, Sidney Smith.

Hemp (*cannabis sativa*); a practical treatise on the culture
of hemp for seed and fiber, with a sketch of the history
and nature of the hemp plant. 1900.633.73 B66

634 Fruits. Orchards. Vineyards

BAILEY, Liberty Hyde.

Principles of fruit-growing. 1897. (Rural science series.) .634 B16
"American books on fruit-growing," p.483-494.

Pruning-book; a monograph of the pruning and training
of plants as applied to American conditions. 1898.
(Garden-craft series.)634 B16p

Sketch of the evolution of our native fruits. 1898.634 B16s

Contents: The rise of the American grape.—The strange history of the
mulberries.—The evolution of American plums and cherries.—The
native apples.—The origin of American raspberry-growing.—Evolu-
tion of blackberry and dewberry culture.—Various types of berry-like
fruits.—Various types of tree fruits.—General remarks on the im-
provement of our native fruits.

[COLLECTION of pamphlets on orchards and fruits.] [1889-
1901.]r634 C69

DOWNING, Andrew Jackson.

Fruits and fruit-trees of America. 1893.634 D77
Directions concerning their culture, propagation and management, with a
list of the best varieties, down to 1883.

MICHIGAN STATE POMOLOGICAL SOCIETY.

Annual report (8th) of the secretary, 1878. 1879.r634 M66

ONTARIO, FRUIT GROWERS' ASSOCIATION.

Annual report (22d), 1890. 1891.qr634 O25

PENNSYLVANIA STATE HORTICULTURAL ASSOCIATION.

- Annual report, Jan. 1872-1876, 1878-1894. (In Agriculture of Pennsylvania, 1878-1894.).....r630.6 P399
 Reports for 1872-1876 are in Report of Pennsylvania state agricultural society, v.8-11, r630.6 P39.
 Previous to 1882 the association bore the name Pennsylvania fruit growers' society.
 For later reports see Pennsylvania—Agriculture, Department of. Annual report.

ROE, Edward Payson.

- Home acre. 1898.....634 R59h
Contents: Tree-planting.—Fruit-trees and grass.—The garden.—The vineyard and orchard.—The raspberry.—The currant.—Strawberries.—The kitchen-garden.

THOMAS, John J.

- American fruit culturist. 1897.....r634 T37
The same; enlarged by W. H. S. Wood. 1903.....634 T37
 Practical handbook for fruit-growers, describing in detail the different varieties of fruit raised in this country.

UNITED STATES—Pomology division.

- Bulletin. no.2, 5-10. 1888-1901.....r634 U25b
 For contents see contents book, v.2, p.240; kept at the reference desk.
 Beginning July 1, 1901, the date of the organization of the Plant industry bureau, the independent series of bulletins of the Pomology division, the last number of which was 10, was discontinued; it is now published, with the bulletins of the other divisions included under the bureau, as one series of the bureau.

WICKSON, Edward James.

- California fruits and how to grow them. 1900.....634 W67

FISH, A. C.

- Profits of orange culture in southern California. 1890...634.231 F52

CARD, Fred Wallace.

- Bush-fruits; a horticultural monograph of raspberries, blackberries, dewberries, currants, gooseberries and other shrub-like fruits. 1898. (Rural science series.)..634.3 C19
 "American books on bush-fruits," p.513-515.
 "Purpose is to present both the practical and technical phases of all the important questions concerned in the cultivation and domestication of the fruits under discussion." *Preface.*

FULLER, Andrew S.

- Small fruit culturist. 1900.....634.3 F98

ROE, Edward Payson.

- Success with small fruits. 1881.....634.3 R59
 Pleasant, readable account of the best practices of growing and selling the berry fruits, as strawberries, raspberries, currants, gooseberries, etc.

BAILEY, Liberty Hyde.

- American grape training. 1893.....634.4 B16

SAPORTA, Antoine, comte de.

- Physique et chimie viticoles. 1899.....r634.4 S24
 Theoretical and practical treatise on scientific vine-culture and wine-making.

UNITED STATES—Pomology division.

- Nut culture in the United States, embracing native and introduced species. 1896.....qr634.5 U25

FERGUSON, John, *comp.*

- All about rubber and gutta-percha; the indiarubber planter's manual, with the latest statistics and information, more

particularly in regard to cultivation and scientific experiments in Trinidad and Ceylon. 1899.....634.6 F38

634.9 Forestry

BRISBIN, James S.

Trees and tree-planting. 1888.....634.9 B75
Object is to awaken interest in forest preservation. Tells what trees are adapted to certain soils and climates, gives practical directions for forest cultivation.

BROWN, James.

The forester; or, A practical treatise on the planting, rearing and general management of forest-trees. 1882...qr634.9 B78

BROWN, John Croumbie.

Management of crown forests at the Cape of Good Hope under the old régime and under the new. 1887.....634.9 B79

BRUNCKEN, Ernest.

North American forests and forestry; their relations to the national life of the American people. 1900.....634.9 B83
Comprehensive treatment of the subject. Discusses the distribution of forests, forest industries, the crime of forest destruction, forest finance and management, and forest fires, closing with a valuable chapter on forestry as a profession.

ELIOT, Charles.

Vegetation and scenery in the metropolitan reservations of Boston; a forestry report. 1898.....634.9 E47
Gives an account of the origin of the commoner types of woodland scenery, with some suggestions on the methods of changing and controlling the vegetation so as to preserve and increase the beauty of the landscape. Though describing local conditions, it sets forth general principles which may be applied anywhere. Maps and photographs of present conditions of tree-growths in the reservations.

GANNETT, Henry, and others.

Forest reserves, 1898-1900. 1899-1900. (In United States—Geological survey. Annual report, pt.5 of v.19-21.)...qr557.3 U25a
Each report is in 2 volumes: v.1, Text; v.2, Atlas.

GIFFORD, John Clayton.

Practical forestry; for beginners in forestry, agricultural students, woodland owners and others. 1902.....634.9 G37
Contents: Meaning of forest and forestry, and other introductory notes.—Wood-lots on farms, forest estates, and the relation of silviculture to the kindred arts of agriculture, horticulture and landscape gardening.—The forest canopy, forest floor and wood-mass.—The forest as an agent in modifying the surface of the earth and in checking the destructive forces of nature.—The geographical distribution of forests.—The formation and tending of forests.—Forest industries and products.—Forest trees and products of the tropics.—The principal federal and state reservations.—A list of fifty American forest trees, twenty-five conifers and twenty-five hardwoods.

HOUGH, Franklin Benjamin.

Elements of forestry. 1882.....634.9 H83
"Author has endeavored to present, in a concise form, a general outline of the subject...in its most ample relations, without attempting to be exhaustive in anything." *Preface.*
Author was formerly chief of the Forestry division, Department of agriculture.

Report upon forestry. 4v. 1878-84. (United States—Agriculture, Department of. Special reports.).....r634.9 H83
v.4 is by N. H. Egleston

MINNESOTA—Chief fire warden.

Forest preservation; annual report (1st-5th), 1895-99.

1896-1900r634.9 M72

NEW JERSEY—Geological survey. (3d survey.)

Report on forests. 1900.....r634.9 N26

Forms part of the Annual report of the state geologist for 1899.

Contains a description of the forest areas, and condition of the timber, papers on "Forests and water supply" and "Forests and climate," and a report on the condition and prospects of forests and forestry in the coast areas.

NEW YORK (state)—Forest commission.

Annual report, 1894. 1895.....r634.9 N2612

April 25, 1895, this commission was consolidated with the Fish and game commission and became Fisheries, game and forest commission, which name was changed in March 1901 to Forest, fish and game commission.

NISBET, John.

Our forests and woodlands. 1900. (Haddon hall library.)634.9 N36

PENNSYLVANIA—Forestry department.

Propagation of forest trees having commercial value and adapted to Pennsylvania, by G. H. Wirt. 1902.....r634.9 P399

PENNSYLVANIA. Statutes.

Pennsylvania laws relating to the Department of forestry, forestry reservations, timber lands, roadside trees, etc.,

1901. 1901.....r634.9 P39

Published by the Department of forestry.

PINCHOT, Gifford, & Graves, H. S.

White pine; a study, with tables of volume and yield.

1896634.9 P61

ROUSSET, Antonin.

The forest waters the farm; or, The value of woodlands as reservoirs. 1886.....634.9 R77

Second title-page reads "Studies of Master Peter about agriculture and forests."

SCHWARZ, G. Frederick.

Forest trees and forest scenery. 1901.....634.9 S41

Popular study of the ordinary types of American forest-trees, pointing out the elements of their beauty. The influence of undergrowth, of climbing plants, the manner of attachment of leaves, etc., are considered in relation to the æsthetic effect produced. Contains chapter on European forests. Fine illustrations.

UNITED STATES—Agriculture, Department of.

Report upon the forestry investigations of the department, 1877-1898, by B. E. Fernow. 1899. (55th cong. 3d sess.

House. Doc. no.181.).....qr634.9 U2532

Appendix: Memorial of a committee of the American association for the advancement of science, in behalf of forest preservation, leading to the establishment of the Division of forestry.—List of publications relating to forestry, issued from the Department of agriculture since 1877.—Forests and forestry in the United States.—Forest policies of European nations.—Forest conditions and methods of forest management in Germany, with a brief account of forest management in British India.—Principles of silviculture.—Principles of forest economy.—Forest influences.—The work in timber physics in the Division of forestry, by Filibert Roth.—Metal ties for railways, and economics in the use of wooden ties, by E. E. R. Tratman.

UNITED STATES—Foreign commerce bureau.

Forestry in Europe; reports from the consuls of the

United States. 1887.....r634.9 U253

UNITED STATES—Forestry bureau.

Bulletin. no.1—date. 1887—date.....qr634.9 U25
 no.11 wanting; no.23 not yet issued (1902).
 For contents see contents book, v.2, p.251; kept at the reference desk.

634.905 Periodicals

AMERICAN journal of forestry; monthly; ed. by F. B. Hough.

v.1. 1882-83.....r634.905 A51
 No more published.

FORESTER; monthly. v.4—date. 1898—date.....r634.905 F76

635 Vegetable gardening

BAILEY, Liberty Hyde.

Forcing-book; a manual of the cultivation of vegetables
 in glass houses. 1897. (Garden-craft series.).....635 B16f

Principles of vegetable-gardening. 1901. (Rural science
 series.)635 B16p
 Bibliography, p.242-270.

FISKE, George Burnap, *comp.*

Prize gardening; how to derive profit, pleasure and health
 from the garden; actual experience of the successful
 prize winners in the American agriculturist garden con-
 test. 1901.....635 F54

Object of the contest was to bring out reports of the most successful
 gardening efforts of the year. The information, which relates al-
 most exclusively to vegetables and fruit, is of a nature that is seldom
 given to the public by successful growers and is, therefore, of special
 interest and value to the novice.

HENDERSON, Peter.

Gardening for profit. 1894.....635 H44

"Although written for market gardeners, this book is invaluable to any
 one who wishes to grow good vegetables. Preparation of soil and
 manures, cultivation in all phases, lists and descriptions of different
 vegetables are given. This is the book of a practical man, one of
 the best gardeners and horticultural writers we have had. It is
 adapted to the use of everybody who desires a vegetable garden."
L. H. Bailey.

WATSON, Alexander.

American home garden; principles and rules for the cul-
 ture of vegetables, fruits, flowers and shrubbery. 1859..635 W31

ABERCROMBIE, John.

Garden mushroom; its nature and cultivation. 1779.....r635.2 A14

636 Domestic animals

JORDAN, Whitman Howard.

Feeding of animals. 1901. (Rural science series.).....636 J42

After a popular account of the chemical constituents of plants and ani-
 mals, the processes of nutrition and digestion, and the functions of
 food in the body, the author gives a description of different cattle
 foods, and the most recent results of scientific investigation and farm
 practice. There is also a useful chapter on the feeding of poultry.
 The work is intended for the reader who has some scientific knowl-
 edge.

MILLER, Olive Thorne.

Our home pets; how to keep them well and happy. 1894...636 M69

The same. 1894.....j636 M69

SHALER, Nathaniel Southgate.

Domesticated animals. 1895.....636 S52

Popular papers on ancestry, characteristics and value of domestic quadrupeds, birds and insects, with chapter on animals' rights and problem of domestication.

UNITED STATES—Animal industry bureau.

Annual report (1st-date), for the year 1884-date. 1885-

dater636 U25

Reports for 1884-98 are indexed in "Index to literature relating to animal industry in the publications of the Department of agriculture," by G. F. Thompson, ro16.63 T38.

Bulletin. no.4-date. 1893-date.....r636 U25b

no.5, 9, 29 wanting.

For contents see contents book, v.2, p.229; kept at the reference desk.

Bulletins no.1-23 are indexed in "Index to literature relating to animal industry in the publications of the Department of agriculture," by G. F. Thompson, ro16.63 T38.

636.1 Horses

HAYES, Matthew Horace.

Points of the horse; a familiar treatise on equine conformation.

1897.....q636.1 H37

Stable management and exercise. 1900.....636.1 H37s

JORROCKS, (*pseud.* of James Albert Garland).

Private stable; its establishment, management and appointments.

1899.....636.1 J43

LUPTON, James Irvine.

The horse; as he was, as he is and as he ought to be.

1881636.1 L98

MARTIN, George A.

Family horse; its stabling, care and feeding. 1889.....636.1 M42

UNITED STATES—Agriculture, Department of.

Special report on the market for American horses in

foreign countries. 1898.....r636.1 U25

"Report on the American trade in horses, descriptions of the kinds of horses needed in European countries, and suggestions to American breeders as to breeding horses for foreign markets. Compiled principally from reports of the United States consular officers."

WALLACE, John H.

The horse of America, in his derivation, history and development.

1897.....636.1 W17

Devotes particular attention to the trotting horse.

WALSH, John Henry, (*pseud.* Stonehenge).

The horse, in the stable and the field. 1899.....636.1 W18h

636.3 Sheep

RUSHWORTH, William Arthur.

Sheep; a historical and statistical description of sheep and their products, with an appendix containing Sheep

breeders' directory. 1899.....r636.3 R89

UNITED STATES—Animal industry bureau.

Special report on the history and present condition of the

sheep industry of the United States, by E. A. Carman,
H. A. Heath and John Minto. 1892.....r636.3 U25

636.5 Poultry

BEALE, Stephen.

Profitable poultry keeping. 1891.....636.5 B34

DARROW, J. Wallace.

Low cost poultry houses; plans and specifications for poultry
buildings costing from \$25 to \$100, with a chapter on poul-
try house conveniences. 1899 636.5 D26

FELCH, Isaac K.

Poultry culture; how to raise, manage, mate and judge
thoroughbred fowls. 1885.....636.5 F33

MYRICK, Herbert, *ed.*

Turkeys and how to grow them. 1897.....636.5 M99

Gives careful directions for breeding, feeding, rearing and marketing.

SHERATON, Denzil.

Everybody's guide to poultry-keeping. [1896.].....636.5 S55

TEGETMEIER, William Bernhard.

Poultry book, comprising the breeding and management
of profitable and ornamental poultry. 1873.....q636.5 T26

WATSON, George Catchpole.

Farm poultry; a popular sketch of domestic fowls, for the
farmer and amateur. 1901. (Rural science series.)...636.5 W31
"Some important poultry publications," p.331-334.

WRIGHT, Lewis, *writer on poultry.*

Illustrated book of poultry. 1880.....qr636.5 W93i

Practical book on breeding and management. All the leading varieties
are described in detail and schedules given for judging at poultry
exhibits.

Practical poultry keeper; a guide to the management of
poultry, whether for domestic use, markets, or exhibi-
tion. 1897.....636.5 W93

Chiefly a description of breeds and varieties, and their origin, with only
short accounts of methods of management and feeding. Preface dated
1867.

636.7 Dogs

DALZIEL, Hugh.

Fox terrier, and all about it; revised and brought up to
date by J. Maxtee. 1900.....636.7 D17

HUNTINGTON, Harry Woodworth.

The show dog; the cardinal virtues and objectionable features
of all the breeds of dogs from the show ring standpoint,
with mode of treatment of the dog both in health and sick-
ness. 1901.....636.7 H94

LANE, Charles Henry.

All about dogs. 1900.....636.7 L23

The same.....j636.7 L23

MAXTEE, J.

Popular dog-keeping. 1898.....636.7 M52
Intended for those keeping but one or two dogs as pets. The dogs de-

scribed are those commonly known as "house" dogs. A large portion of the book is devoted to education and training.

STABLES, William Gordon.

Our friend the dog. 1884.....636.7 S77

Describes the characteristics and points of the various breeds, and treats of their management in health and sickness.

WALLACE, Mrs. *comp.*

Memories of some Oxford pets, by their friends. 1900....636.7 W17

WALSH, John Henry, (*pseud.* Stonehenge).

The dog in health and disease. 1887.....636.7 W18

636.8 Cats

CHANCE, Mrs J. C.

Book of cats; being a discourse on cats, with many quotations and original pencil drawings. 1898.....636.8 C36

HUIDEKOPER, Rush Shippen.

The cat; a guide to the classification and varieties of cats, and a treatise upon their care, diseases and treatment.

1895636.8 H91
Bibliography, p.11.

REPPLIER, Agnes.

Fireside sphinx. 1901.....636.8 R35

Contents: The cat of antiquity.—The dark ages.—Persecution.—Renaissance.—The cat of Albion.—The cat in art.—The cat triumphant.—Some cats of France.—The cat to-day.

WINSLOW, Helen Maria.

Concerning cats; my own and some others. 1900.....636.8 W79

There are chapters on the author's own pet cats as well as those of noted people, historic cats, high-bred cats in England and America, the cats of poetry and art, cat hospitals and refuges, kittens and their tricks, characteristics of cats, and an appendix on the diseases of cats and their treatment. Numerous illustrations.

636.9 Other domestic animals

CRABTREE, Pleasant Elijah.

First Belgian hare course of instruction; twenty lessons, with a history of the Belgian hare and actual experiences of breeders. 1901.....636.9 C85
Advice on all branches of Belgian hare raising, with instruction in exhibiting and scoring.

HARTING, James Edmund.

The rabbit; with a chapter on cookery by A. I. Shand.

1898. (Fur and feather series.).....636.9 H32
Discussed as an object of sport. Describes its breeding, and all the methods of capturing and killing it.

SCOTFORD, Frederick E.

Belgian hares and how to raise them. 1900.....636.9 S42

JACKSON, Sheldon.

Annual report ([1st]-date) on introduction of domestic reindeer into Alaska, 1890-date. 1891-date. (United States—Education bureau.).....636.91 J12

1st report is a preliminary report transmitted Nov. 12, 1890. 1st and 4th reports will be found in the sheep bound set of congressional documents, no. 2818 and 3280.

2d report is a special report of progress from 1890 to Jan. 1893.

637 Dairy. Milk

BAUMEISTER, Ferdinand.

Milch und molkerei-producte. 1895. (Hartleben's chemisch-technische bibliothek.).....r637 B32
Illustrates the practice in butter- and cheese-factories. Contains a section on milk testing and analysis.

PENNSYLVANIA STATE DAIRYMEN'S ASSOCIATION.

Transactions, 1876, 1878-1894. (In Agriculture of Pennsylvania, 1878-1894.).....r630.6 P399
Report of transactions for 1876 in Pennsylvania state agricultural society. Annual report of the transactions, v.11, r630.6 P39.
For later reports see Pennsylvania—Agriculture, Department of. Annual report.

RICHMOND, Henry Droop.

Dairy chemistry; a practical handbook for dairy chemists and others having control of dairies. 1899.....637 R42
"List of useful books," p.357-358.

SNYDER, Harry.

Chemistry of dairying. 1897.....637 S67
Bibliography at the end of each chapter.
Outlines the subject in simple language. Intended to instruct farmers and dairymen in the chemistry of milk and milk-products.

UNITED STATES—Foreign commerce bureau.

Cattle and dairy farming; reports from consuls of the United States, on cattle and dairy farming and the markets for cattle, beef and dairy products in their several districts. 1887. (49th cong. 1st sess. House. Ex. doc. no.51.).....r637 U25

WING, Henry Hiram.

Milk and its products. 1897. (Rural science series.).....637 W78
"References to agricultural experiment station reports and bulletins," p.259-267.
Discusses especially the manufacture of butter and cheese. Author is (1897) assistant professor of dairy husbandry in Cornell university.

AIKMAN, C. M.

Milk; its nature and composition. 1895.....637.1 A29

FARRINGTON, Edward Holyoke, & Woll, F. W.

Testing milk and its products; a manual for dairy students, creamery and cheese-factory operators and dairy farmers. 1898.....637.1 F25
The methods are those which do not require an expert knowledge of analytical chemistry. The use of the Babcock tester is given especial attention.

638 Bees. Silkworms

ROOT, A. I.

A B C of bee culture. 1890.....q638 R68
The same; revised by E. R. Root. 1903.....q638 R68a

SOUDER, David.

Rural economist's assistant in the management of bees, principally taken from the German writings of J. L. Christ. 1807.....r630 P39
Bound with other pamphlets.

HAZZI, J. von.

Treatise on the culture of silk in Germany and especially in Bavaria; or, Complete instruction for the plantation and the management of mulberry trees and the rearing of silkworms. 1828. (United States. 20th cong. 1st sess. [House. Doc.] no.175, pt.2.).....r633.57 U25
Bound with other pamphlets.

HOMERGUE, John d'.

D'Homergue upon American silk; report of the committee on agriculture, on the growth and manufacture of silk, to which is annexed Essays on American silk, with directions for raising silk worms, by John d'Homergue and P. S. Duponceau, May 24, 1830. 1830. (United States. 21st cong. 1st sess. House. Doc. no.26.).....r630.4 C69
Bound with other pamphlets.

ROBERTS, Edward P.

Manual containing directions for sowing, transplanting and raising the mulberry tree, also directions for the culture of silk. 1839.....r633.57 U25
Bound with other pamphlets.

639 Fisheries

LONDON, INTERNATIONAL FISHERIES EXHIBITION,
1883.

Fisheries exhibition literature. 14v. 1884.....r639 L82
For contents see contents book, p.170; kept at the reference desk.
v.14 is an index volume.

PENNSYLVANIA—Fisheries, State commissioners of.

Fish, fishing and fisheries of Pennsylvania; comp. by
W. E. Meehan. 1893.....r639 P39f
Prepared for Pennsylvania's fish exhibit at the World's Columbian exposition, Chicago, 1893.
Report, 1873/74, 1879/80—date. *1875—date.....r639 P39
The report for 1873/74 will be found in Executive documents, 1874,
r328.74 P39e.
Report for 1883/84 wanting.

THOMPSON, Lindsay G. *comp.*

History of the fisheries of New South Wales, with a sketch of the laws by which they have been regulated. 1893....r639 T38

UNITED STATES—Fish commission.

Bulletin. v.1—date. 1882—date.....qr639 U25b
v.1-4 will be found in the sheep bound set of congressional documents,
no.1996, 2127, 2213, 2310.

Fisheries and fishery industries of the United States; prepared by G. B. Goode and a staff of associates. 5v.in 7.
1884-87qr639 U25
v.1. Natural history of useful aquatic animals.
pt.1. Text. pt.2. Plates.
v.2. Geographical review of the fisheries industries and fishing communities for 1880.
v.3. The fishing grounds of North America.
v.4. The fishermen of the United States.
v.5. History and methods of the fisheries.
pt.1-2. Text. pt.3. Plates.

- Report ([1st]-date) of the commissioner, 1871-date. 1873-dater639 U25r
 The title-page of the 1st report reads "Report on the condition of the sea fisheries of the south coast of New England in 1871 and 1872."
 Report of the commissioner on investigations in the Columbia river basin in regard to the salmon fisheries. 1894. (53d cong. 2d sess. Senate. Mis. doc. no. 200.)qr639 U25re
 BUND, John William Willis.
 Handy book of fishery management. 1899.....639.1 B88
 McINTOSH, William Carmichael.
 Resources of the sea, as shown in the scientific experiments to test the effects of trawling and of the closure of certain areas off the Scottish shores. 1899.....639.1 M17
 UNITED STATES—Special agents division.
 Report on the salmon fisheries of Alaska, 1896-1900. 1897-1901r639.1 U25
 Report for 1896 is by G. R. Tingle; for 1897-1900, by H. M. Kutchin. Reports for 1899-1900 will be found in the sheep bound set of congressional documents, no.3852 and 4042.
 UNITED STATES—State department.
 Fisheries; England, France, Netherlands; message from the president transmitting information on the subject of the regulations of England, France and the Netherlands respecting their fisheries. 1832. (22d cong. 1st sess. House. Doc. no.99.).....r639.1 U253

639.2 Fish-culture

- MATHER, Fred.
 Modern fishculture in fresh and salt water. 1900.....639.2 M46
 Contains a chapter on whitefish culture, by Herschel Whitaker, and one on the pike-perch, by James Nevin.
 ROOSEVELT, Robert Barnwell, & Green, Seth.
 Fish hatching and fish catching. 1879.....639.2 R68
 TRAHERNE, John Popkin.
 Habits of the salmon. 1889.....639.2 T68

640 Domestic economy

- BIDDER, Marion Greenwood, & Baddeley, Florence.
 Domestic economy in theory and practice; a text-book for teachers and students in training. 1901. (Cambridge series for schools and training colleges.).....640 B47
 Gives excellent outlines of lessons on food and domestic economy, with practical directions helpful to every young housekeeper, though many suggestions apply only to the English conditions for which it is written.
 BUCKTON, Mrs Catherine M.
 Comfort and cleanliness; the servant and mistress question. 1898.....640 B85
 Short practical directions, including an outline of each servant's work in a small household. Adapted to English city conditions.
 CAMPBELL, Mrs Helen.
 Easiest way in housekeeping and cooking. 1893.....640 C15e
 Bibliography, p.288.

- Household economics. 1897.....640 C15
 Bibliography at the end of each chapter.
 Practical chapters on house-building, furnishing, household management,
 food, cleaning, sanitation, service, modern life, etc.
- DEWING, Mrs Maria R. (Oakey).
 Beauty in the household. 1882.....645 D51
 Discusses questions of taste and beauty in household furnishings and
 offers many suggestions as to artistic effects.
- HERRICK, Mrs Christine (Terhune).
 First aid to the young housekeeper. 1900.....640 H47
- HOLT, Mrs Elizabeth F.
 From attic to cellar; or, Housekeeping made easy.
 1892640 H74
 Handbook on convenient and sanitary house-furnishing, servants' duties
 and rights, washing, sweeping, fuel, care of lamps, woollens, silver, etc.
- HUNTINGTON, Emily.
 Kitchen garden; or, Object lessons in household work.
 1893qj640 H94
 Author originated the kitchen-garden, which applies kindergarten methods
 to teaching little girls to sweep, dust, answer the door, lay the table,
 and other simple household duties. Miss Huntington's classes have
 been successfully conducted for years at the Wilson mission, Avenue
 A and St. Mark's place, New York.
- MURCHE, Vincent T.
 Teacher's manual of object lessons in domestic economy;
 adapted to meet the requirements of the education de-
 partment in the class subject of domestic economy.
 2v. 1898.....640 M97
- ORMSBEE, Mrs Agnes (Bailey).
 House comfortable. 1892.....640 O28
- PARLOA, Maria.
 Home economics. 1898.....640 P24
Contents: Some essentials of the home.—The water-supply.—Furnish-
 ing.—Daily routine of household work.—The laundry.—Care of
 lighting appliances.—Fuel and fires.—Table service.—Marketing.—
 The art of carving.—Food.—Woods and polished floors.—Treatment
 of wood finishes.—Oils, their use and behavior.—Stains.
- POWER, Mrs Susan C. (Dunning), (*pseud.* Shirley Dare).
 Anna Maria's housekeeping. 1884.....640 P87
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History of wireless telegraphy, 1838-1899; including some

- bare-wire proposals for subaqueous telegraphs. 1899....654.1 F14
 "Succinct and well-informed account of the origin and development of the idea of telegraphing without wires. The book is divided into 3 parts, corresponding to 3 periods—the possible, the practicable, and the practical." *Literature (Eng.)*, 1899.
The same. 1900.....r654.1 F14
- KERR, Richard.
 Wireless telegraphy popularly explained. 1898.....654.1 K21
 "Accurate account, with excellent illustrations, of the subject of electric signalling without intervening wires, put in popular and readable form, easy of comprehension even by those unfamiliar with electrical phenomena."
- LODGE, Sir Oliver Joseph.
 Signalling across space without wires; a description of the work of Hertz and his successors. [1900.] (Electrician series.).....654.1 L765
- TUNZELMANN, George William de.
 Wireless telegraphy; a popular exposition. 1901.....654.1 T84

654.5 Submarine telegraphy

- BRIGHT, Charles.
 Submarine telegraphs; their history, construction and working. 1898.....qr654.5 B74
 Founded in part on Wünschendorff's "Traité de télégraphie sous-marine."
- FIELD, Henry Martyn.
 Story of the Atlantic telegraph. 1893.....654.5 F45
 Popular history of the laying of the first Atlantic cables, by the son of the promoter, Cyrus W. Field.
- RUSSELL, William Howard.
 Atlantic telegraph. [1865.].....q654.5 R9r
- SMITH, Willoughby.
 Rise and extension of submarine telegraphy. 1891.....q654.5 S66
 "I have...contented myself with merely setting down...many of the incidents which have come within my personal experience, or have been derived from sources for the accuracy of which I can vouch."
Preface.
- WILKINSON, Henry D.
 Submarine cable laying and repairing. 1896. (Electrician series.)654.5 W72
 Detailed technical summary of the methods of manufacturing, laying, testing and repairing cables.

654.6 Telephones

- ALLSOP, Frederick Charles.
 Telephones; their construction and fitting. 1900.....654.6 A44
The same. 1895.....r654.6 A44
- BENNETT, Alfred Rosling.
 Telephone systems of the continent of Europe. 1895....654.6 B43
- DOBBS, A. E.
 The inspector and the trouble man; an explanation of telephone line construction, etc. 1900.....q654.6 D65i
 Published by the Electrical engineering publishing company.
 Appeared first in the "Telephone magazine."
 Treats especially of repair work in connection with small systems. Clear and practical.

DOLBEAR, Amos Emerson.

Telephone, with directions for making a speaking telephone. 1877.....r654.6 D69

HOMANS, James Edward.

A B C of the telephone; a treatise for students and workers in telephony. 1901.....654.6 H75
Well-written manual covering the whole field of telephony in a general way, intended for general readers and for beginners. Many illustrations.

HOUSTON, Edwin James, & Kennelly, A. E.

Electric telephone. 1896. (Elementary electro-technical series.)r654.6 H83

The same. 1902. (Elementary electro-technical series.)...654.6 H83e
Explanation of the principles and method of operation, written for non-technical readers.

MILLER, Kempster B.

American telephone practice. [1899.].....654.6 M69

"Writer has endeavored to present in as clear a manner as possible the general principles of telephony, the design and construction of commercial apparatus, the circuits connecting such apparatus into operative systems, and the methods used in the construction, operation, and maintenance of these systems. No attempt has been made to treat the subject from its purely mathematical standpoint." *Preface.*

The same. [1899.].....r654.6 M69

MONTILLOT, Louis.

Téléphonie pratique. 1893. (Encyclopédie électrique.)...r654.6 M86

PIÉRARD, Émile.

La téléphonie. 1899.....r654.6 P55

Describes thoroughly and accurately both American and European apparatus and systems. Well illustrated with diagrams and cuts of the different forms of instruments.

PREECE, Sir William Henry, & Stubbs, A. J.

Manual of telephony. 1893. (Specialists' series.).....654.6 P89
Covers thoroughly and accurately English practice prior to 1893.

PRESCOTT, George Bartlett.

Electric telephone. 1890.....654.6 P92

TELEPHONY; an illustrated monthly telephone journal.

v.1-date. 1901-date.....qr654.6 T27

UNITED STATES—Pan-electric telephone co. Committee to investigate charges relating to.

Testimony taken by the committee appointed to investigate charges against certain public officers relating to the Pan-electric telephone company, and to suits by the United States to annul the Bell telephone patents. 1886. (49th cong. 1st sess. House. Mis. doc. no.355.)...r654.6 U25

WEBB, Herbert Laws.

Telephone hand-book. 1894.....654.6 W36
Practical work on the working and management of telephones. American practice.

WIETLISBACH, Victor.

Handbuch der telephonie; bearbeitet von Robert Weber.

1899r654.6 W68

Treats of both theory and practice. A very thorough manual.

Telephony; tr. fr. the German. 1901.....654.6 W68t

Biography of the author, p.277-279.

Series of articles contributed to "Electrical engineering" during 1895-1898.

AMERICAN ELECTRICAL ENGINEERING ASSOCIATION.

Patented telephony; review of the patents pertaining to telephones and telephonic apparatus. 1897.....654.62 A51

HOPKINS, William John.

The telephone; outlines of the development of transmitters and receivers. 1898.....654.62 H78

Contents: Sound.—Historical.—Development of transmitters.—Early successful types of transmitters.—Systematic investigations.—Granular transmitters.—Magneto instruments.—Design of receivers.

MONCEL, Théodore Achille Louis, vicomte du.

Telephone, microphone and phonograph. 1879.....654.62 M81
Entirely out of date as regards present practice.

DOBBS, A. E.

Practical features of telephone work. 1899.....654.63 D65

Advice in regard to the starting of telephone systems, intended especially to assist in the installation of small exchanges, and to aid those having little knowledge of the business.

HOPKINS, William John.

Telephone lines and their properties. 1896.....654.63 H78

Contents: Design and construction of city lines.—Underground work.—Long distance lines.—Wire.—Insulators.—Exchanges.—Switchboards.—The propagation of energy.—The telephone current.—Measurement.—Properties of city lines.—Interferences from outside sources.—Properties of metallic circuits.—Cables.

654.7 Electric bells

ALLSOP, Frederick Charles.

Electric bell construction; a treatise on the construction of electric bells, indicators and similar apparatus. 1900..654.7 A44

Practical electric bell fitting; a treatise on the fitting-up and maintenance of electric bells and all the necessary apparatus. 1899.....654.7 A44p

HASLUCK, Paul Nooncree, *ed.*

Electric bells; how to make and fit them, including batteries, indicators, pushes and switches. 1900.....654.7 H33

Handbook for every-day use. Supplies concise information on the general principles of the subject of which it treats.

WITTBECKER, William A.

Domestic electrical work; concise and practical explanations for plumbers, tinnerns and hardware dealers on how to wire buildings for bells, alarms, annunciators, and for gas lighting from batteries. 1899.....654.7 W82

655 Printing. Publishing

BOUCHOT, Henri.

The book; its printers, illustrators and binders. 1890....qr655 B65

Condensed history of printing and the other arts involved in book-making. The chapters on type and binding have been revised by specialists. Has chapters on libraries and on collecting, describing and cataloguing incunabula. This is an enlarged edition of Bouchot's "The printed book."

The printed book; its history, illustration and adornment, from the days of Gutenberg to the present time. 1887...655 B65

Good short account, giving more attention to the artistic development than the typographical. Includes a chapter on binding.

GROWOLL, Adolf.

Profession of bookselling. v.1-2. 1893-95.....qr655 G94

Puts in accessible form, direction and information of a practical kind that may be of service to the young recruit in the ranks of the book trade. The chapter "Bibliography of literature," is excellent reading for those who would become familiar with the literatures of the world. v.2 contains an admirably condensed description of bookbinding from a practical point of view, as well as a history of bibliopegic art from its earliest beginning to the present; illustrated with 16 representative bindings.

MacKELLAR, Thomas.

American printer; a manual of typography. 1893.....r655 M17

This book is kept in the printing department.

SMITH, Adèle Millicent.

Printing and writing materials. 1901.....655 S64

Contents: Printing: Ancient relief processes.—Printing in Europe.—Invention of typography.—Early printing-presses.—England and America.—Type-founding.—Typesetting.—History of the printing-press.—Newspaper printing.—Reproductive processes.—Writing materials: Materials used by ancient peoples.—Papyrus.—Parchment and vellum.—Paper.—Pens and lead-pencils.—Ink.—Bookbinding: Ancient covers, Early bindings.—Medieval bindings.—Modern bindings.—Commercial bindings.—Forwarding.

SOUTHWARD, John.

Modern printing; a handbook of typography and the aux-

iliary arts. 4v. 1898-1900.....655 S72

v.1. The composing room.

v.2. Book and jobbing composition.—Machine composition.

v.3. Press and machine work.—Colour printing.

v.4. Arts auxiliary to printing.—Business management, etc.

PASKO, William Wesley, *comp.*

American dictionary of printing and bookmaking, containing a history of these arts in Europe and America.

1894qr655.03 P27

655.05 Periodicals

INLAND printer; monthly. v.13-date. 1894-date.....qr655.05 I24

QUADRAT; a typographical journal; ed. by J. F. Marthens.

v.1-11, in 1. 1873-84.....qr655.05 Q14

Published irregularly.

655.1 History of printing

BLADES, William.

Pentateuch of printing, with a chapter on judges; with a memoir of the author and a list of his works by T. B.

Reed. 1891.....q655.1 B51

Clear, simple, non-technical account of the origin and development of the art of printing.

QUARITCH, Bernard, *comp.*

Monuments of typography and xylography; books of the first half century of the art of printing, offered for sale

by Quaritch. 1897.....r655.1 Q18

SOUTHWARD, John.

Progress in printing and the graphic arts during the Victorian era. 1897.....qr655.1 S72

HESSELS, John Henry.

Haarlem the birth-place of printing, not Mentz. 1887. .qr655.112 H48

MORRIS, William, & Cockerell, S. C.

Note by William Morris on his aims in founding the Kelmscott press; together with a short description of the press by S. C. Cockerell, and an annotated list of the books printed thereat. 1898.r655.142 M91
This was the last book printed at the Kelmscott press.

PLOMER, Henry Robert.

Short history of English printing, 1476-1898. 1900.
(English bookman's library.)655.142 P71

GRESWELL, William Parr.

Annals of Parisian typography. 1818.r655.144 G88
Account of the Paris printing establishments from the time of the invention of printing to the introduction of the Greek press in 1507, with a description of their most remarkable productions. Written partly to show their influence on the early English press.

BROWN, Horatio Robert Forbes.

Venetian printing press. 1891.qr655.145 B78
"Historic study of first-rate importance, based on original researches... There is scarce any subject connected with the production and distribution of literature on which new light is not thrown, but it is to the most interesting and important of these that Mr. Brown devotes the greater part of his investigations—the regulation and censorship of the press." *Nation*, 1890.

ONGANIA, Ferdinando, *pub.*

L'art de l'imprimerie à Venise. 1895-96.qr655.145 O25a
Introductory chapter on "The art of printing at Venice during the Italian renaissance" by Carlo Castellani. The library has copies of this work in English, French and Italian.

L'arte della stampa nel rinascimento italiano Venezia.

1894qr655.145 O25ar
Introductory chapter on "The art of printing at Venice during the Italian renaissance" by Carlo Castellani. The library has copies of this work in English, French and Italian.

Early Venetian printing illustrated. 1895.qr655.145 O25

This beautiful volume consists of reproductions, in black and red, of pages, initials, marks and illustrations of many of the best-known printers of Venice, including Aldus, Jenson, Ratdolt and others, from 1469 to 1539.

Introductory chapter on "The art of printing at Venice during the Italian renaissance" by Carlo Castellani. The library has copies of this work in English, French and Italian.

HECKETHORN, Charles William.

Printers of Basle in the 15th and 16th centuries; their biographies, printed books and devices. 1897.qr655.149 H39
"Authorities," p.7-9.

WEEKS, Stephen Beauregard.

Press of North Carolina in the eighteenth century, with biographical sketches of printers, an account of the manufacture of paper, and a bibliography of the issues. 1891r655.175 W42
This monograph contains all that was known at the time of its publication (1891), of the 18th century North Carolina press. The bibliography contains 130 titles of books, pamphlets and broadsides printed in the state in the 18th century and gives a summary of the legal literature of the period.

655.2 Type and type-setting

DE VINNE, Theodore Low.

Treatise on the processes of type-making, the point system, the names, sizes, styles and prices of plain printing types. 1900. (Practice of typography.).....655.2 D49

The same. 1900. (Practice of typography.).....r655.2 D49

This copy is kept in the printing department.

The first of a series of treatises on the practice of typography, by the founder of the De Vinne press. Contains an illustrated description of the tools, processes and systems of type-making, the names and descriptions of all sizes of book types, with specimens of each; numerous exhibits of the more important styles of roman, italic, black and display-letter, including recent quaint styles designed for book-printing, with tables of prices of types here and abroad, etc. It is a book which will be needed in every printing and publishing office, for it contains information not to be found in the ordinary grammars of printing nor to be gleaned from the specimen books of the type-founders.

AMERICAN TYPE FOUNDERS' CO.

One hundred years, 1796-1896; MacKellar, Smiths and Jordan foundry, Philadelphia, Pa. 1896.....qr655.21 A51

URQUHART, John W.

Electro-typing; a practical manual. 1881.....655.22 U27

655.24 Specimen books

AMERICAN TYPE FOUNDERS' CO.

Specimens of printing types. 1897.....r655.24 A51

BRUCE'S, (George) SON & CO.

Specimens of printing types made at Bruce's New-York

type-foundry. 1882.....qr655.24 B82

Contains "The invention of printing," by T. L. De Vinne.

FARMER, (A. D.) & SON TYPE FOUNDING CO.

Specimens, including complete price list. 1897.....r655.24 F24

PAGE, (William H.) WOODTYPE CO.

Chromatic specimens of wood type.....qr655.24 P14

A pamphlet of specimens of ordinary wood type is bound with this volume.

RALPH, Edmund Southpy, *comp.*

Book of designs from type; showing practical examples selected from the catalogues and letter-press work of various customers; studies in black and white. 1897..r655.24 R17b

Modern type display; examples of artistic type display, also a brief treatise on type display. 1900.....r655.24 R17
Published by the Inland printer co.

655.25-655.26 Composition. Proof-reading

DE VINNE, Theodore Low.

Correct composition; a treatise on spelling, abbreviations, the compounding and division of words, the proper use of figures and numerals, italic and capital letters, notes, etc.; with observations on punctuation and proof-reading. 1901.

(Practice of typography.).....655.25 D49

The same. 1901. (Practice of typography.).....r655.25 D49

This copy is kept in the printing department.

TEALL, Francis Horace.

Proof-reading; a series of essays for readers and their employers and for authors and editors. 1899.....r655.25 T26
Author was critical proof-reader and editor of the Century and Standard dictionaries, and is (1901) editor of the Proof-room notes and queries department of the "Inland printer."

VENN, Theo. J.

Manual of proofreading. 1897.....655.25 V26

BISHOP, Henry Gold.

Specimens of job work for printers; suggestions for setting up business cards, letter heads, bill heads, circulars and all kinds of display advertising. 1896.....qr655.26 B49

TYPOGRAPHICAL UNION NO. 6, New York.

Printing exposition job contest; reproductions of 134 specimens of job composition submitted in a competition inaugurated by Typographical union no.6, New York, in connection with the celebration of its 50th anniversary. 1900.....qr655.26 T98

655.27 Imposition

WILLIAMS, T. B.

Hints on imposition; a guide for printer and pressman in the construction of book-forms. 1895.....655.27 W74

655.28 Linotype

BARCLAY, E. J.

Linotype operator's companion; contains a list of patents issued on type-setting, distributing and matrix-making machines, from 1841-1898. 1898.....r655.28 B23
This book is kept in the printing department.

COCHRANE, Charles Henry.

Proper fingering of the linotype keyboard. 1898.....r655.28 C64
Reprinted from the "Inland printer," July 1898.

LINOTYPE manual; giving detailed instructions of the proper adjustment and care of the linotype. 1898....r655.28 L72

MERGENTHALER LINOTYPE CO.

Price list of linotype parts. 1898.....r655.28 M63
This book is kept in the printing department.

STUBBS, William Henry.

Stubbs's manual; a practical treatise on linotype keyboard manipulation. 1902.....r655.28 S93
Author is (1902) the holder of speed record. He explains clearly his own method of fingering.

655.3 Practical printing

BISHOP, Henry Gold.

Job printer's list of prices and estimate guide, containing prices to be charged for all kinds of job and book work. 1893655.3 B49

The practical printer, containing information on all the various parts of the printing business. 1895.....655.3 B49p

JACOBI, Charles Thomas.

Printing; a practical treatise on the art of typography as applied more particularly to the printing of books. 1893. (Technological handbooks.).....r655.3 J13
This book is kept in the printing department.

MOXON, Joseph.

Mechanick exercises; or, The doctrine of handy-works applied to the art of printing. 2v. 1896.....qr655.3 M94
Reprint of the edition of 1683.

WILSON, Frederick J. F. & Grey, Douglas.

Practical treatise upon modern printing machinery and letterpress printing. 1888.....q655.3 W76

KELLY, William J.

Presswork; a practical handbook for the use of pressmen and their apprentices. 1897.....r655.32 K17
Appeared in the "Inland printer."
This book is kept in the printing department.

The same. 1902.....r655.32 K17p

LANGER, Wilhelm.

Die herstellung der abziehbilder (metachromatypie, decalcomanie), der blech- und transparentdrucke. 1888.
(Hartleben's chemisch-technische bibliothek.).....r655.32 L25

655.4 History of publishing and bookselling

PUTNAM, George Haven.

Books and their makers during the middle ages. 2v.
1896-97655.4 P99
v.1. 476-1600.
v.2. 1500-1709.
Treats of books in manuscript, of the invention of printing and the history in some detail of the representative great printer-publishers, including a list of titles of their more important publications. Discusses the beginning of property in literature, censorship and literary privileges.

ARBER, Edward, *comp.*

List, based on the registers of the Stationers company, of 837 London publishers (who were by trade, printers, engravers, booksellers, bookbinders, etc.) between 1553 and 1640; a master key to English bibliography. 1890qr655.442 A66

ROBERTS, William.

Earlier history of English bookselling. 1889.....655.442 R53
Contents: Bookselling before printing.—The dawn of English bookselling.—Bookselling in the time of Shakespeare.—Bookselling in the 17th century.—Bookselling in Little Britain.—Bookselling on London bridge.—Other bookselling localities.—Jacob Tonson.—Bernard Lintot.—Edmund Curll.—John Dunton.—Thomas Guy.

655.5 Publishing and bookselling

PUTNAM, George Haven, & John Bishop.

Authors and publishers; a manual of suggestions for beginners in literature. 1897.....655.5 P99

WAGNER, Leopold.

How to publish a book or article and how to produce a play. 1898.....655.5 W13

WELSH, Charles.

Publishing a book; a few practical hints to authors as to the preparation of manuscript, the correction of proof, and arrangement with the publisher. 1899.....655.5 W51

655.6 Copyright

BIRRELL, Augustine.

Seven lectures on the law and history of copyright in books. 1899.....655.6 B49

PUTNAM, George Haven.

Question of copyright. 1891. (Questions of the day.)....655.6 P99

The same. 1896.....r655.6 P99q

Comprises the text of the United States copyright law, a summary of the copyright laws now in force in the chief countries of the world, a report of pending legislation in Great Britain, and a sketch of the contest in the United States from 1837 to 1891 to secure international copyright, together with a paper on the results of the American act of 1891.

WRIGHT, Carroll Davidson.

Report on the effect of the international copyright law in the United States, made in compliance with the resolution of the United States Senate of Jan. 23, 1900. 1901. (United States. 56th cong. 2d sess. Senate. Doc. no.87.).....r4033

656 Transportation. Railroads

See also Railroads, 385; Railroad and road engineering, 625

ALEXANDER, J. T. Burton.

Runs in three continents; a short record of actual performances on some European, Canadian, Australian and American railways. 1900.....656 A376

COMMERCIAL & FINANCIAL CHRONICLE, *comp.*

Hand-book of railroad securities, Jan. 1900; description, income, prices, dividends. 1900r656 C73

DREDGE, James.

Record of the transportation exhibits at the World's Columbian exposition. 1894.....qr656 D81r
Partly reprinted from "Engineering."

GRAY, Thomas, 1787-1848.

Observations on a general iron rail-way, or land steam-conveyance. 1825.....r656 G81

JEANS, James Stephen.

Railway problems; an inquiry into the economic conditions of railway working in different countries. 1887.....656 J22

MARINE REVIEW, *pub.*

Blue book of American shipping, 1898-date. 3d annual issue-date. 1898-date.....qr656 M38
Issue for 1901 wanting.

MERCANTILE GUIDE AND BUREAU CO. *pub.*

C. and T. (Cavanagh & Townsend, commerce & transportation) shipping guide, combining a railroad, express, postal and route guide. 1900.....qr656 M63

PURCHASING AGENTS' DIRECTORY CO. *pub.*

Railway purchasing agents', master mechanics' and master
car builders' directory, 1891/92, 1895. 1890-95.....r656.02 P98

AMERICAN RAILWAY ASSOCIATION.

Proceedings. v.1-date. 1886-date.....qr656.05 A51

The volume for 1886 to 1893 contains an appendix of the Proceedings of
the General time convention, 1872 to 1885, and of the Southern railway
time convention, 1877 to 1885.

In 1886 the Southern railway time convention united with the General
time convention, and in 1891 the convention became the American rail-
way association.

Proceedings for Oct. 1899 wanting.

RAILWAY magazine; monthly. v.2-3. 1897.....r656.05 R15

RINGWALT, John Luther.

Development of transportation systems in the United
States. 1888.....qr656.09 R47

Describes the leading features of advancement (from the colonial period
to recent times) in the various methods of transportation. Gives the
cost at various times and with the different systems, the various
questions which have arisen, and notable incidents in railway de-
velopment.

656.1 Railroad management

IVATTS, Edmund B.

Railway management at stations. 1898.....656.1 I33

Manual of instruction, with suggestions for improvements. Conforms to
the English system of railway working.

KIRKMAN, Marshall Monroe.

Railway service, trains and stations. 1878.....656.1 K28

"Treats of the composition and movement of railway trains and the laws
governing the same, including an exposition of the duties of train
and station men." *Preface.*

656.2 Light railroads

COLE, William Henry.

Light railways at home and abroad. 1899.....656.2 C68

Manual of information concerning light railways, both narrow and stand-
ard gage, in different countries. Pays particular attention to their
development in England.

FLEMING, Howard.

Narrow gauge railways in America. 1876.....656.2 F62

Historical and practical sketch, including a directory of narrow-gage
railways in the United States in 1876.

656.31 Railroad accounting

EATON, James Shirley.

Railroad operations, how to know them; from a study of
the accounts and statistics. 1900.....656.31 E19

656.4 Accidents. 656.5 Safety appliances

ADAMS, Charles Francis, b. 1835.

Notes on railroad accidents. 1879.....656.4 A21

LANGDON, William Edward.

Application of electricity to railway working. 1897.....656.5 L24

The same. 1877.....r656.5 L24

Has no reference to railways in which electricity is the form of energy used to move the trains, but deals with the application of electricity to telegraphs, the block system of signals and train-lighting.

STRETTON, Clement E.

Safe railway working; a treatise on railway accidents, their cause and prevention, with a description of modern appliances and systems. 1893.....656.5 S91

656.51 Signals

MURPHY, W. J.

Stereopticon method of examining and instructing railway employes. 1899.....656.51 M97
A method of representing train signals in the lecture-room.

RAILWAY SIGNAL ASSOCIATION.

Proceedings, 1897/98-date. v.1-date. 1898-date.....r656.51 R15
From 1897-1903 called Railway signaling club.

WILSON, H. Raynar.

Railway signalling. [1900.] (Railway series of text books and manuals by railway men.).....qr656.51 W76
Treats only mechanical signaling, and describes minutely the appliances representing sound British practice. Working drawings are given for almost every device used.

ADAMS, Braman Blanchard.

Block system of signaling on American railroads; the methods and appliances used in manual and automatic block signaling, also descriptions of hand-operated and power-operated interlocking machines. 1901.....656.56 A21

DERR, William Lloyd.

Block signal operation; a practical manual. 1897.....656.56 D44

ELLIOTT, W. H.

Block and interlocking signals. 1896.....656.56 E52
Construction, operation and cost of various systems.

PIGG, James.

Railway "block" signalling; the principles of train signalling and apparatus for ensuring safety. [1898.]....656.56 P57

656.6 History of railroads

ENGLAND—Steam carriages on common roads, Select committee on.

Report on steam carriages, by a select committee of the House of commons, with minutes of evidence and appendix. 1832. (United States. 22d cong. 1st sess. House. Doc. no.101.).....r656.6 E64

Appendix contains "Documents in relation to the comparative merits of canals and railroads," giving much information on cost of railway construction, maintenance and operation in early times.

Committee inquired into the tolls which should be imposed, the tolls which the laws then in force allowed, and "generally into the present state and future prospects of land carriage by means of wheeled vehicles propelled by steam or gas on common roads."

GILPIN, William.

Cosmopolitan railway, compacting and fusing together all

- the world's continents. 1890.....656.6 G42
 A plan for a railway system connecting the railroads of America, by way of Bering strait, with those of Asia, Europe and all the world.
- PANGBORN, Joseph Gladding.
 Side lights on management world systems railways. 1901..656.6 P21
 A practical railway man's views of the efficiency of the various systems of railway management used in America, Germany, Australia, New Zealand, India, England and Russia.
- The world's rail way; historical, descriptive, illustrative.
 1894qr656.6 P21
 Accurate and extremely interesting survey of railroading, describing particularly the early days of the industry. Contains many illustrations of almost all the early types of locomotives.

England

- ACWORTH, William Mitchell.
 Railways of England. 1890.....656.642 A18
 Popular description of the leading railways, noting the most characteristic features of each.
- FINDLAY, George James.
 Working and management of an English railway. 1891..656.642 F49
- GRINLING, Charles Herbert.
 History of the Great northern railway, 1845-1895. 1898..656.642 G92
 The railway in question is the Great northern of England.
- PENDLETON, John.
 Our railways; their origin, development, incident and romance. 2v. 1894.....656.642 P39
 Treats of English railways only.

United States

- ADAMS, Charles Francis, b. 1835.
 Railroads; their origin and problems. 1888.....656.673 A21
 Discusses the necessity of governmental regulation of railway rates, earnings, etc.
- The AMERICAN railway; its construction, development, management and appliances. 1893.....qr656.673 A51
Contents: Introduction, by T. M. Cooley.—Building of a railway, by T. C. Clarke.—Feats of railway engineering, by John Bogart.—American locomotives and cars, by M. N. Forney.—Railway management, by E. P. Alexander.—Safety in railroad travel, by H. G. Prout.—Railway passenger travel, by Horace Porter.—Freight-car service, by Theodore Voorhees.—How to feed a railway, by Benjamin Norton.—Railway mail service, by T. L. James.—The railway in its business relations, by A. T. Hadley.—Prevention of railway strikes, by C. F. Adams.—Every-day life of railroad men, by B. B. Adams, jr.—Statistical railway studies, by F. W. Hewes.
- AMERICAN street railway investments; a supplement to the Street railway journal; annual. 6th annual volume—date. 1899—date.....qr656.673 A512
- BALTIMORE AND OHIO RAILROAD CO.
 Annual report (6th, 8th-9th, 16th-20th, 24th) of the president and directors to the stockholders, 1832, 1834-35, 1842-46, 1850. 1832-50.....r656.673 B21a
 The 8th and 9th annual reports will be found in a volume of pamphlets numbered, r380 D24.
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MOTT, Edward Harold.

Between the ocean and the lakes; the story of Erie. 1899q656.673 M94
History of the New York and Erie railroad, including brief biographies of the presidents of the road.

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Reports of the railroad companies of Pennsylvania, communicated by the auditor general to the legislature, 1863-1874. 1864-75.....r656.673 P399
Later reports include canals, telegraph and telephone companies.
By the constitution of 1873 railroad companies are required to report to the secretary of internal affairs instead of to the auditor general.

PENNSYLVANIA—Internal affairs department.

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Earlier reports were issued by the auditor general.

PENNSYLVANIA RAILROAD CO.

Annual report (1st-3d) of the directors, 1847-49. 1847-50r656.673 R15
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By-laws of the board of directors, 1847, with the charter, its supplement and other laws relating to railroads projected from Cumberland to Pittsburg and from Pittsburg east. 1847.....r656.673 R15
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Catalogue of the exhibit at the World's Columbian exposition. 1893.....qr656.673 P39
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- ROBERTS, Solomon White.
 Report to the president and directors of the Ohio and Pennsylvania rail-road company. 1849.....r656.673 R15
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- SIPES, William B.
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- UNITED STATES—Interstate commerce commission.
 Annual report (1st-date) on the statistics of railways, for the year ending June 30, 1888—date. 1889—date.....r656.673 U25
 Fifth report is bound with r385 U25 v.7.
- VAN OSS, S. F.
 American railroads as investments. 1893.....656.673 V19
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- WARMAN, Cy.
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 Pictures the building of the earlier transcontinental lines across the true West. Historically, the book is valuable because it gives a comprehensive sketch of a great subject in a brief compass, and, furthermore, the strange and picturesque phases of life which are depicted are full of immediate interest.
The same. 1903.....j656.673 W23
- WILSON, William Bender.
 History of the Pennsylvania railroad company; with plan of organization, portraits of officials, and biographical sketches. 2v. 1899.....656.673 W77
The same. 2v. 1899.....r656.673 W77

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 Entertaining, well-illustrated book which traces the history of omnibuses from the time of the famous Shillibeer, and still more remotely from the first conception of an omnibus in the brain of Blaise Pascal. The development of the cab is illustrated by some capital pictures, and there is much of interest about cab fares, cab strikes and cab accidents.

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FRY, Henry.

History of north Atlantic steam navigation. 1896. r656.8 F97

Author is (1896) ex-president of the Dominion board of trade of Canada, and is a high authority on steam-navigation. The book includes histories of the principal north Atlantic lines of steamships.

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v.1. WOODEN SAILING-SHIPS: Ancient ships in the Mediterranean and Red seas.—Ancient ships in the seas of northern Europe.—Mediæval ships.—Modern wooden sailing-ships.—Description of an archaic Greek bireme.—Tonnage and its measurement at different times.

KNOX, Thomas Wallace.

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The same. 1883. r656.8 P89

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Manual of elementary seamanship. 1896. 656.81 B24

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Men of the merchant service; the polity of the mercantile marine, for 'longshore readers. 1900. 656.81 B87

"Affords . . . a clear account of the life, the work, the prospects, the qualifications needed, the conditions necessary to success in the merchant service, reviewing every phase of the career, and working through the whole ship's company from master down to ship's boy. . . . The most serious point in Mr. Bullen's . . . book [is] the deterioration in quality of the English seaman, and he traces it without hesitation to its cause in the relaxation of discipline." *Spectator*, 1900.

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Contents: The development of the steamship, by F. E. Chadwick.—Speed in ocean steamers, by A. E. Seaton.—The building of an ocean

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Interesting articles by experts. Intended for general reading.
- KNIGHT, Austin M.
Modern seamanship. 1901.....656.81 K34
Written when the author was at the head of the department of seamanship at the U. S. naval academy, to supply a text-book which should meet the modern naval conditions, giving most attention to the full-powered steamer, but not neglecting the sailing vessel. It is as modern in method as in scope, and a valuable manual for yachts and merchant vessels as well as for men-of-war.
- 656.9 River navigation**
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- HABERMEHL, John.
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First steamboat voyage on the western waters. 1871.....r656.9 L36
Contains also "Pittsburgh pioneer steamboating; some reminiscences of an old captain (John Birmingham)."
Account of the voyage of the steamboat New Orleans (which was built at Pittsburgh) from Pittsburgh to New Orleans in the fall of 1811.
- LLOYD, James T.
Steamboat directory. 1856.....r656.9 L75
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- ARNOLD, Horace Lucian, (*pseud.* Henry Roland), *comp.*
Complete cost-keeper; some original systems of shop cost-keeping or factory accounting, with an exposition of

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American accountants' manual. v.1. 1897.....657 B75
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board of examiners of public accounts, with answers, 1897.
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- DEWSON, Mary Williams, *comp.*
Twentieth century expense book, with an introduction by
Mrs E. H. Richards. 1900.....r657 D51
Blank cash-book and journal into which the cash-book items are to be
entered monthly. The journal is divided in such a way as to show at
a glance whether any side of the family life is absorbing more than its
proportion of the total income. The main divisions are "Housing,"
"Operating expenses," "Food," "Clothing," and "Higher life," each
subdivided as deemed necessary, with a page or two for a general
summing up.
- DICKSEE, Lawrence Robert.
Auditing; a practical manual for auditors. 1900.....657 D55
With appendixes of acts, reports of cases, etc.
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Bookkeeping for accountant students. 1900.....657 D55b
- DUFF, C. P. and others.
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boiler insurance.—Summary of the factory and workshop acts.—Table
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"Systematic statement of the principles regulating factory accounts; and
of the methods by which those principles can be put into practice and
made to serve important purposes in the economy of manufacture."
Preface.
- GOODWIN, J. H.
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on higher accounting. 1901.....657 K16
- LEWIS, J. Slater.
Commercial organisation of factories. 1896.....q657 L67
"Practical handbook for the use of manufacturers who wish to adopt
modern methods of organisation. It is written throughout from the
point of view of an organiser and manager, rather than from that of a
professional accountant." *Introduction.*

- Author has had much experience in the management of engineering works in England.
- MATHESON, Ewing.**
 Depreciation of factories, mines and industrial undertakings, and their valuation. 1893.....657 M46
 Points out leading circumstances to be considered in fixing the provision for depreciation, and discusses the valuation of factories. Particularly a manual for accountants.
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 Cost of manufactures and the administration of workshops, public and private. 1894.....657 M64
 Containing chiefly estimates and suggestions for the equipment and successful management of arsenals.
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 Organization of gold mining business, with specimens of the departmental report books and the account books.
 1897qr658 B79
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 American business woman; a guide for the investment, preservation and accumulation of property, containing full explanations and illustrations of all necessary methods of business. 1900.....658 C89
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 Whom to trust; a practical treatise on mercantile credits.
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 Every-day business; notes on its practical details, arranged for young people. 1896.....658 E58
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 Compendium of forms; educational, social, legal and commercial. 1892.....qr658 G21

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Cyclopædia of commercial and business anecdotes. 2v.
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How department stores are carried on. 1901.....658 P51
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Good advertising. 1896.....659 B31
Practical suggestions for every one who advertises, with examples of what to avoid as well as what to do in advertising.
- LARWOOD, Jacob, (*pseud. of L. R. Sadler*), & Hotten, J. C.
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- Chemistry for engineers and manufacturers. 2v. 1896....660 B56
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Bibliography, v.2, p.438-441.
"Information given is designed to be of so practical a character as will
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bad economy, and to realize when saving may be effected by calling
in expert assistance." *Preface*.

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Bound with Gould's "Report on the history of the discovery of Neptune."

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v.1. Introduction.—The technical laboratory.—Materials used in plant
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Separating solubles from insolubles.—Absorbing and compressing
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Electrolysis and electro-smelting.—The construction of packages.—
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"Popular exposition touching the daily life of man which reveals to the
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Describes methods for the preservation of a wide diversity of sub-
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Good brief summary. Well illustrated.

OTTO, Friedrich Julius.

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Takes up each of the important organic industries, treating of the raw materials, processes of manufacture, products, analytical tests and methods.

"Represents more thoroughly than any similar publication the practice of the United States...and at the same time covers what is best in the European practice." *William McMurtrie.*

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SIMMONDS, Peter Lund.

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- ZEITSCHRIFT** für angewandte chemie; [weekly]. v.1-date. 1888-dateqr660.5 Z43
 Formed by the union of the "Zeitschrift für die chemische industrie" and the "Repertorium der analytischen chemie."
- ZEITSCHRIFT** für die chemische industrie, mit besonderer berücksichtigung der chemisch-technischen untersuchungsverfahren; [bimonthly]. 2v. in 1. 1887.....qr660.5 Z431
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 (Hartleben's chemisch-technische bibliothek.).....r660.8 C18
- VOMÁCKA, Adolf.**
 Haus-specialitäten. 1888. (Hartleben's chemisch-technische bibliothek.).....r660.8 V37
 Receipts for the preparation of baking-powder, inks, glues, polishing pastes, etc.

661 Chemicals

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Chemische präparatenkunde; handbuch der darstellung und gewinnung der am häufigsten vorkommenden chemischen körper, für techniker, gewerbetreibende und industrielle. 1890. (Hartleben's chemisch-technische bibliothek.).....r661 K36

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Die technologie der chemischen producte, welche durch grossbetrieb aus unorganischen materialien gewonnen werden. 1865. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r661 S41
Contents: Der schwefel.—Die borsäure.—Der borax.—Das kochsalz.—Der natronsalpeter.—Die natürliche soda.—Die pottasche.—Die soda-asche.—Der kelp oder varech.—Die salpetersäure.
 Theory and practice of the methods of utilizing these raw materials.

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Manufacture of electric light carbons.....661.126 P95
 Detailed description of a process for arc-lamp carbons which the author claims to have worked successfully.

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Theoretical and practical treatise on the manufacture of sulphuric acid and alkali, with the collateral branches.
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Die mineralensäuren. 1879. (Hartleben's chemisch-technische bibliothek.)r661.2 P54
 Brief statement of methods of manufacture, testing and uses.

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A standard treatise, covering this industry in detail.

PFEIFFER, Emil.

Handbuch der kali-industrie; die bildung der salzlager von Stassfurt und umgegend, sowie von Kalusz und beschreibung dieser salzlager; die technische gewinnung der kalisalze aus den natürlich vorkommenden salzen mit ihren nebenzweigen und anwendung der kalisalze in der landwirthschaft. 1887. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r661.3 P47

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Describes the manufacture of the technically important compounds of cyanogen, and their use in electroplating, gold extraction, etc.

662 Pyrotechnics. Explosives. Fuel**662.1 Pyrotechnics****BROWNE, W. H.**

Firework making for amateurs; complete and explicit instructions in the art of pyrotechny. 1888.....662.1 B81

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WEBSKY, Christian Friedrich Martin.Lustfeuerwerkskunst; leichtfassliche, bewährte anleitung zur anfertigung von lustfeuerwerken. 1891.....r662.1 W37
Intended particularly for amateurs. Gives directions for simple pieces.**662.2 Explosives****BERTHELOT, Pierre Eugène Marcellin.**Explosive materials; a series of lectures; tr. by Marcus Benjamin, to which is added a short historical sketch of gunpowder by Karl Braun. 1883. (Van Nostrand's science series.).....662.2 B46e
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BÖCKMANN, Friedrich.Die explosiven stoffe; ihre geschichte, fabrikation, eigenschaften, prüfung und praktische anwendung in der sprengtechnik. 1895. (Hartleben's chemisch-technische bibliothek.).....r662.2 B57
General manual for users of explosives.**EISSLER, Manuel.**

Handbook on modern explosives; with chapters on explosives in practical application. 1897.....662.2 E42

Modern high explosives; nitro-glycerine and dynamite, pyroxyline, or gun-cotton, the fulminates, picrates and chlorates. 1884.....r662.2 E42
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Short description of the explosives now used, including methods of manufacturing and testing.

MEYER, Ernst von.

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Treats of guncotton, nitro-explosives, dynamite, fulminates, percussion-caps and other igniters, colored fires, rockets, etc.

SANFORD, P. Gerald.

- Nitro-explosives. 1896.662.2 S22
Brief, interesting and trustworthy account of the manufacture of nitro-glycerin, guncotton, dynamite and other nitro-explosives. Describes the testing of raw and finished material. Written from the chemist's point of view.

WISSER, John Philip.

- Explosive materials; the phenomena and theories of explosion, and the classification, constitution and preparation of explosives. 1898. (Van Nostrand's science series.)662.2 W81
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BERNADOU, John Baptiste.

- Smokeless powder, nitro-cellulose and the theory of the cellulose molecule. 1901.662.3 B45
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UPMANN, J.

- Das schiesspulver; dessen geschichte, fabrikation, eigenschaften und proben. 1874. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r668.1 D38
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JETTEL, Wladimir.

- Die zündwaaren-fabrikation in ihrer gegenwärtigen ausbildung, mit berücksichtigung der wichtigsten maschinen zum hobeln der hölzer, zum einlegen und ausnehmen, zur spanschachtel- und salonbüchsen-fabrikation, und der recepte zum zusammensetzen der zündwaaren. 1871. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r668.1 D38
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662.6 Fuel

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- Fuel; its combustion and economy. 1879.....r662.6 C51
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FISCHER, Ferdinand.

- Die chemische technologie der brennstoffe. v.1-2. 1897-1901662.6 F52
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- Die torf-industrie; handbuch der gewinnung, verarbeitung und verwerthung des torfes im kleinen und grossen betriebe, sowie darstellung verschiedener producte aus torf. 1898. (Hartleben's chemisch-technische bibliothek.)r662.6 K3c
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MILLS, Edmund James, & Rowan, F. J.

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POOLE, Herman.

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SEXTON, Alexander Humboldt.

- Fuel and refractory materials. 1897.....662.6 S51
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gas engineering tables. 1895.....r662.6 S63
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BRECKON, J. R. *comp.*

- "Facts and figures" concerning the manufacture of coke,
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DÜRRE, Ernst Friedrich.

- Die neueren cokesöfen unter berücksichtigung aller
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dry distillation during the period 1882-92. Includes descriptions and
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FULTON, John.

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- Hand-book for charcoal burners. 1875.....r662.7 S96
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THENIUS, Georg.

- Die meiler- und retorten-verkohlung; die liegenden und
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WEEKS, Joseph Dame.

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662.8 Artificial fuel

JUNEMANN, Friedrich.

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THWAITE, Benjamin Howarth.

- Gaseous fuel, including water gas. 1889.....662.8 T43
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663 Beverages

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- EFFRONT**, Jean.
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Theory and practice of use of diastatic ferments in brewing and distilling.
- GREEN**, Joseph Reynolds.
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- HANSEN**, Emil Christian.
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Their morphology and biology. Clearly written review of present knowledge, by an investigator of high standing.
- LAFAR**, Franz.
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- SCHÜTZENBERGER**, Paul.
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mentation, and a brief history of the progress of opinion and research."
Douglas A. Spalding.

663.2 Wine

HENDERSON, Alexander.

History of ancient and modern wines. 1824.....qr663.2 H44

MAIER, Karl.

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manufacture of fortified and artificial wines.

MOHR, Friedrich.

Der weinbau und die weinbereitungskunde. 1865. (Hand-
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employment in practice.
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Die champagner-fabrikation und erzeugung imprägnirter
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Practical handbook giving brief descriptions of methods and machinery
used in manufacturing natural and artificial effervescing wines.

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Brief practical manual of the manufacture of wine, by an experienced
wine-maker.

REDDING, Cyrus.

History and description of modern wines. 1836.....r663.2 R27
Popular work, describing the qualities, sources and methods of manu-
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REGNER, Alfred von.

Die bereitung der schaumweine; mit besonderer berück-
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1899. (Hartleben's chemisch-technische bibliothek.)..r663.2 R29
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wines made by impregnation with gaseous carbonic acid.

THUDICHUM, John Louis William, & Dupré, August.

Treatise on the origin, nature and varieties of wine. 1872..663.2 T42
Comprehensive account of viticulture and wine-making in all its branches.
Discusses thoroughly the chemistry of wine. A standard work.

663.3-663.4 Brewing. Beer

Der BAYERISCHE bierbrauer. *See* Zeitschrift für das
gesamnte brauwesen.

CASSIAN, Franz.

Die dampf-brauerei; eine darstellung des gesammten brauwesens nach dem neuesten stande des gewerbes. 1887. (Hartleben's chemisch-technische bibliothek.).....r663.3 Cz6
Theoretical and practical. Vienna, Bavarian and Bohemian beers are especially considered.

HABICH, G. E.

Handbuch der bierbrauerei, auf grundlage von Habich, Schule der bierbrauerei; hrsg. von Conrad Schneider und Gottlieb Behrend. 1891.....663.3 H11
Thorough manual of all branches of the German brewing industries.

LEYSER, Emil.

Die malz- und bierbereitung; ein handbuch zum selbstunterricht für praktiker sowie zum gebrauche an brauerschulen. 1900.....663.3 L67
The 10th edition of "Die bierbrauerei," by Philipp Heiss. A standard text-book of German methods and practice. Thorough and accurate. Treats especially of thick mash beers.

WAHL, Robert, & Henius, Max, *ed.*

American handy-book of the brewing, malting and auxiliary trades. 1901.....r663.3 W13
Bibliography, p.1157-1185. Pocket encyclopedia, giving concise information as to standard American practice in the various industries connected with brewing.

WEBER, Karl.

Die malz-fabrikation; eine darstellung der bereitung von grün-, luft- und darrmalz nach dem gewöhnlichen und den verschiedenen mechanischen verfahren. 1887. (Hartleben's chemisch-technische bibliothek.).....r663.3 W37
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FRIED, Wilhelm.

Die keller der bierbrauereien. 1900.....663.4 F94
Describes methods of construction, materials, heating and cooling arrangements, etc. Clear and practical.

RÜDINGER, Hermann.

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Practical handbook for brewers and brewery chemists.

663.5 Distilling

BRIEM, Hermann.

Die rübenbrennerei; dargestellt nach den praktischen erfahrungen der neuzeit. 1888. (Hartleben's chemisch-technische bibliothek.).....r663.5 B74
"Die literatur der rübenbrennerei," p.12-15. Treats of manufacture of rum and alcohol from sugar-beets and beet sugar molasses.

EIDHERR, Eduard.

Der chemisch-technische brennereileiter; populäres handbuch der spiritus- und presshefe-fabrikation. 1898. (Hartleben's chemisch-technische bibliothek.).....r663.5 E39
Concise explanation of the chemistry and technology of distillation. Describes processes, machinery, etc.

GABER, August.

Die fabrikation von rum, arrak, cognac und allen arten von obst- und fruchtenbranntweinen. 1898. (Hartleben's chemisch-technische bibliothek.).....r663.5 G11

Die liqueur-fabrikation. 1899. (Hartleben's chemisch-technische bibliothek.).....r663.5 G11
Describes the raw materials, processes, etc. used, and gives numerous formulæ for liqueurs, crèmes, brandies, etc.

Der praktische destillateur und spirituosenfabrikant; hand- und hilfsbuch für destillateure, liqueur- und spirituosenfabrikanten. 1901. (Hartleben's chemisch-technische bibliothek.)r663.5 G11p

Pays special attention to the physical and chemical properties of the raw materials and the products, giving methods of analysis, etc. Intended primarily as a companion to treatises on distillation and liqueur manufacture.

GUICHARD, Pierre.

Traité de distillerie: Chimie du distillateur. 1895. (Encyclopédie de chimie industrielle.).....r663.5 G96tr
Summarizes the chemical properties of the various alcohols, sugars and their derivatives of importance in commercial distillation, and gives directions for their chemical identification and estimation.

Traité de distillerie: Industrie de la distillation; levures et alcools. 1897. (Encyclopédie de chimie industrielle.)...r663.5 G96t
Considers the various steps in the manufacture of alcohol both theoretically and practically. Good brief summary of French practice.

Traité de distillerie: Microbiologie du distillateur; ferments et fermentation. 1896. (Encyclopédie de chimie industrielle.)r663.5 G96
Handbook of the chemistry and biology of ferments, for chemists, distillers, etc.

MAERCKER, Maximilian.

Handbuch der spiritusfabrikation. 1894.....r663.5 M24

PIAZ, Antonio dal.

Die cognac- und weinsprit-fabrikation, sowie die trester- und hefebranntwein-brennerei. 1891. (Hartleben's chemisch-technische bibliothek.).....r663.5 P53
Describes machinery and processes.

REIS, Josef.

Bereitung der brennerei-kunsthefe. 1883. (Hartleben's chemisch-technische bibliothek.).....r663.5 R32
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WILFERT, Adolf.

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DUBELLE, George H. *ed.*

"Non plus ultra" soda fountain requisites of modern times; a practical receipt book comprising all the latest novelties and specialties for soda fountain beverages. 1893..663.6 D85

MEITZ, Oskar.

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- limonaden, weine, u. s. w., gründliche beschreibung der hiezu nöthigen apparate; neu bearbeitet und erweitert von E. Luhmann. 1897. (Hartleben's chemisch-technische bibliothek.).....r663.6 M57
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- SALDAU, Ernst.
Die chocolade-fabrikation. 1881. (Hartleben's chemisch-technische bibliothek.).....r663.91 S16
Directions for making the different commercial varieties, descriptions of machinery used, properties of cacao and methods of analysis and of testing for adulterants are given.
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- CAPAUN-KARLOWA, C. F.
Unsere lebensmittel; eine anleitung zur kenntniss der vorzüglichsten nahrungs- und genussmittel, deren vorkommen und beschaffenheit in gutem und schlechtem zustande, sowie ihre verfälschungen und deren erkennung. 1879. (Hartleben's chemisch-technische bibliothek.)r664 C18
- RUPRECHT, Karl.
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Describes the properties and manufacture of albumin, the methods of preserving eggs and egg products and methods for analyzing albumin.
- BERSCH, Wilhelm.
Die fabrikation von stärkezucker, dextrin, maltosepräparaten, zuckercouleur und invertzucker; ein handbuch für stärke-, stärkezucker- und invertzucker-fabrikanten. 1901. (Hartleben's chemisch-technische bibliothek.)..r664.1 B46
Good brief treatise. Describes chemistry and practice. Devotes considerable space to methods of analysis for sugar laboratories.
- REGNER, Richard von.
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- OERTEL, Friedrich.
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- LANG, Victor.
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Report, with the views of the minority, on oleomargarine and other imitation dairy products, etc., Jan. 26, 1901. (56th cong. 2d sess. Senate. Report no.2043.).....r664.3 U25
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Salzbergbau- und salinenkunde. 1900.....r664.4 F98
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- DUCKWALL, Edward W.
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665 Oils. Gases. Candles

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Das beleuchtungswesen; nebst einem anhang über elektrische beleuchtung, von Gustav Wiedemann. 1862.
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Bibliography, p.322-326.
Chiefly devoted to candles and gas-lighting; lamps for oil and electricity are briefly considered. Treats of raw materials, methods of manufacture, value, etc.
- BRANNT, William Theodore, *ed.*
Practical treatise on animal and vegetable fats and oils.
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Contents: Fixed fats and oils.—Volatile or essential oils.—Lubricants. Contains a list of United States patents on oils and fats, 1790-1896.
- BRUNNER, Richard.
Die fabrikation der schmiermittel, der schuhwichse und lederschmiere. 1897. (Hartleben's chemisch-technische bibliothek.)r665 B83
Chiefly a collection of formulæ for lubricants for sewing-machines, watches and wagons, and oils and greases for shoes, leather, etc., with some discussion of the raw materials and methods of extraction of oils.
- CARPENTER, William Lant.
Treatise on the manufacture of soap, candles, lubricants and glycerin. 1895.....665 C22
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- HURST, George H.
Lubricating oils, fats and greases; their origin, preparation, properties, uses and analysis. 1896.....665 H95
- KRÄTZER, Hermann.
Die fabrikation der deutschen, französischen und englischen wagen-fette. 1888. (Hartleben's chemisch-technische bibliothek.).....r665 K41
Brief compilation of receipts and directions.
- LEWKOWITSCH, Julius.
Laboratory companion to fats and oils industries. 1901...r665 L67
Contents: System and examination of fats and waxes.—Fats, oils and

- waxes, and the commercial products derived therefrom.—General tables. Tables intended to contain all numerical values necessary in the examination of fats and oils.
- LIGHTING.** 1895. (Chemical technology, v.2.).....q665 L69
Contents: Fats and oils, by W. Y. Dent.—Stearine industry, by J. McArthur.—Candle manufacture, by L. Field and F. A. Field.—The petroleum industry, and Lamps, by Boverton Redwood.—Miners' safety lamps, by Boverton Redwood and D. A. Louis.
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 Readable treatise on the application of fats, oils and waxes to lighting, covering the various subjects in considerable detail.
- PERL, Eduard.**
 Die beleuchtungsstoffe und deren fabrikation; ein handbuch für fabrikanten, händler von leuchtmaterialien, kaufleute und hauswirthe. 1876. (Hartleben's chemisch-technische bibliothek.).....r665 P43
- PRACTICAL** compounding of oils, tallow and grease for lubrication, etc., by an expert oil refiner. 1898.....665 P88
 Numerous receipts for compounding oils for special uses are given, with some hints and cautions. Treatment is superficial and of little value to experienced oil-makers.
- REDWOOD, Iltyd I.**
 Lubricants, oils and greases, treated theoretically and giving practical information regarding their composition, uses and manufacture. 1898.....665 R27
- SEDNA, Ludwig.**
 Das wachs und seine technische verwendung. 1886.
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 Describes the various animal, vegetable and mineral waxes of commercial importance, methods of obtaining and preparing them, and of making various specialties for technical and medicinal purposes.
- THALMANN, Friedrich.**
 Die fette und oele; darstellung der gewinnung und der eigenschaften aller fette, oele und wachsorten, der fett- und oelraffinerie und der kerzen-fabrikation. 1892.
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 Animal and vegetable fixed oils, fats, butters and waxes; their preparation and properties, and the manufacture therefrom of candles, soaps and other products. 1894..665 W93
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ANDÉS, Louis Edgar.

Animalische fette und oele; ihre praktische darstellung, reinigung, verwendung zu den verschiedensten

- zwecken, ihre eigenschaften, verfälschungen und untersuchung. 1897. (Hartleben's chemisch-technische bibliothek.)665.2 A55
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- Among the more important subjects are butter, oleomargarine, lard and tallow.
- Die trocknenden oele; ihre eigenschaften, zusammensetzung und veränderungen, sowie fabrikation der firnisse aus denselben zu anstrichen und für buchdrucker, genaue darstellung der fabrikation aller anstrich-, buchdruck-, stein- und kupferdruckfarben. 1882. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r661.11 F52
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- Vegetabilische fette und oele; ihre praktische darstellung, reinigung, verwerthung zu den verschiedensten zwecken, ihre eigenschaften, verfälschungen und untersuchung. 1896. (Hartleben's chemisch-technische bibliothek.)...r665.3 A55
- Concise summary of information relating to this industry.

665.4 Mineral oils. Paraffin

ANDÉS, Louis Edgar.

- Vegetabilische und mineral-maschinenöle, (schmiermittel); deren fabrikation, raffinirung, entsäuerung, eigenschaften und verwendung. 1893. (Hartleben's chemisch-technische bibliothek.)r665.4 A55
- Describes raw materials used, methods of manufacture and testing lubricants, various special formulae, instruments for using lubricants and oil filters.

BERLINERBLAU, Joseph.

- Das erdwachs; ozokerit und ceresin; geschichte vorkommen, gewinnung und verarbeitung. 1897. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r665.4 S32
- Descriptions apply especially to practice and conditions in Austro-Hungary.
- Bound with Scheithauer's "Die fabrikation der mineralöle."

BRUNTON, Richard Henry.

- Production of paraffin and paraffin oils, with an abstract of the discussion upon the paper; ed. by James Forrest. 1881665.4 B83
- Reprinted from the "Minutes of proceedings of the Institution of civil engineers," v.66.
- Describes methods used in Scotland for producing oil from bituminous shale.

GESNER, Abraham.

- Practical treatise on coal, petroleum and other distilled oils. 1865r665.4 G33
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SCHEITHAUER, W.

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 Thorough technical description of the distillation of lignite, bituminous shale, turf, etc., and of the preparation of the various products for use.

665.5 Petroleum

ANTISELL, Thomas.

Manufacture of photogenic or hydro-carbon oils. 1859.....r665.5 A63

BRANNT, William Theodore, *ed.*

Petroleum, with the occurrence and uses of natural gas; *ed. chiefly from the German of Hans Hofer and Alexander Veith.* 1895.....r665.5 B71

Contents: History of petroleum; History of the petroleum industry in the United States, Galicia, Roumania, Russia and other countries.—Division and nomenclature of bitumen.—Physical and physiological properties of petroleum.—Chemical constitution of petroleum.—Occurrence of petroleum.—Origin of petroleum.—Boring; Conveyance; Transportation.—Crude oil.—Manufacture.—Manufacture of paraffin.—Methods of testing oils.—Uses and properties of petroleum.—Natural gas and oil gas.—Useful tables.

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BURGMANN, Arthur.

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NEUBURGER, Henry, & Noalhat, Henri.

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1901q665.5 N25

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REDWOOD, Boverton, & Holloway, G. T.

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v.2. The shale oil and allied industries.—The transport, storage and distribution of petroleum.—The testing of crude petroleum, petroleum and shale oil products, ozokerite and asphalt.—The uses of petroleum and its products.—Statutory, municipal and other regulations relating to the testing, storage, transport and use of petroleum and its products.—Statistics.—Marine transport of petroleum.—Import duties levied on petroleum.

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- ROSSMÄSSLER, F. A.
 Lehrbuch der verarbeitung der naphtha oder des erdöles auf leucht- und schmieröle. 1886. (Hartleben's chemisch-technische bibliothek.).....r665.5 R74
- THOMSON, Jocelyn Home, & Redwood, Boverton.
 Handbook on petroleum; for inspectors under the petroleum acts and for those engaged in the storage, transport, distribution and industrial use of petroleum and its products and calcium carbide, with suggestions on the construction and use of mineral oil lamps. 1901..665.5 T38
 Especially devoted to a discussion of safe methods for the transportation, storage and distribution of petroleum. Includes a brief discussion of the technology of petroleum.

665.7 Illuminating gas

- BROWN'S directory of American gas companies; gas statistics, 1890, 1894, 1899. 3v. 1890-99.....r665.7 B82
- BUTTERFIELD, William John Atkinson.
 Gas manufacture, the chemistry of; a practical handbook on the production, purification and testing of illuminating gas, and the assay of the bye-products of gas manufacture. 1898.....665.7 B98
 Contains a chapter on acetylene, p.352-398.
- CLEGG, Samuel.
 Practical treatise on the manufacture and distribution of coal-gas. 1866.....qr665.7 C55
- COGLIEVINA, Domenico.
 Theoretisch-praktisches handbuch der gas-installation. 1889. (Hartleben's chemisch-technische bibliothek.)...r665.7 C66
 Manual of theoretical and practical information for gas-engineers. Treats of photometry, value of gas for various purposes, methods of measuring, distributing, etc.
- COOPER, Thomas, 1759-1840.
 Some information concerning gas lights. 1816.....r665.7 C78
- GRAHAM, David Allan.
 Treatise on the comparative commercial values of gas coals and cannels. 1882.....665.7 G76
- HORNBY, John.
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- HUGHES, Samuel.
 Gas works; their construction and arrangement and the manufacture and distribution of coal gas; rewritten by William Richards. 1892.....665.7 H89
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 Small volume, giving a good general description of the subject.
- HUMPHRYS, Norton Henry.
 Chemistry of illuminating gas. 1891.....665.7 H92

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 "Record of the various gas-making processes that have been proposed
 ...with some account of the natural laws that govern the manufacture
 and supply of illuminating gas." *Preface.*
- HUNT, Charles.
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- INTERNATIONAL ENGINEERING CONGRESS, Glas-
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 Proceedings of section 8: Gas; ed. by J. W. Helps. [1901.] .r665.7 I24
- KING, William Boughton, *pub.*
 Treatise on the science and practice of the manufacture
 and distribution of coal gas; ed. by Thomas New-
 bigging and W. T. Fewtrell. 3v. in 2. 1878-82.qr665.7 K26
- MATTHEWS, William, *engineer.*
 Historical sketch of the origin, progress and present state
 of gas-lighting. 1827r665.7 M47
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 inventions.
- MÜLLER, A.
 Die gasbeleuchtung im haus und die selbsthilfe des gas-
 consumenten. 1881. (Hartleben's chemisch-technische
 bibliothek.)r665.7 M95
- NEWBIGGING, Thomas.
 Handbook for gas engineers and managers. 1898665.7 N26
- O'CONNOR, Henry.
 Gas engineer's pocket-book. 1898r665.7 O13
- RICHARDS, William, *civil engineer.*
 Practical treatise on the manufacture and distribution of
 coal gas. 1877qr665.7 R41
 Manual for gas-engineers. Treats of machinery and methods, giving
 designs, plans and specifications for gas-works installations.
- THENIUS, Georg.
 Die fabrikation der leuchtgase nach den neuesten forschung-
 en; nebst einem anhang ueber die untersuchung der
 leuchtgase nach den neuesten methoden. 1891. (Hart-
 leben's chemisch-technische bibliothek.)r665.7 T34
 Brief practical manual. Describes manufacture of gas from coal, lignite,
 wood, petroleum and other carbonaceous materials, water-gas, etc.
 Treats also of the utilization of by-products and residues from retorts,
 and methods of distributing and consuming gas.

665.705 Periodicals

AMERICAN GAS LIGHT ASSOCIATION.

- Report of proceedings of the semi-annual meeting held at
 Washington, May 12th, 1875, and annual meetings held
 at New York city, Oct. 20th, 1875, and Oct. 18th, 1876.
 1877r665.705 A512
- AMERICAN gas light journal; weekly, 1888, Jan.-June 1890.
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ASSOCIATION OF GAS ENGINEERS AND MANAGERS,
England.

Report of proceedings, 1893-date. 1894-date.....r665.705 A84

DEUTSCHER verein von gas und wasserfachmännern.

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INCORPORATED GAS INSTITUTE.

Transactions; report of the annual meeting (1st-39th).

1864-1902r665.705 I242

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Volume for 1902 contains "Subject-matter index of the proceedings at the meetings of the British association of gas managers and the Gas institute from 1863 to 1902 inclusive."

Merged, Nov. 29, 1902, with the Incorporated institution of gas engineers to form the Institution of gas engineers.

INCORPORATED INSTITUTION OF GAS ENGINEERS.

Transactions, 1891-1902. 12v. 1892-1902.....r665.705 I24

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JOURNAL für gasbeleuchtung und verwandte beleuchtungsarten; [monthly and weekly]. v.1-date. 1858-

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v.33-date title reads "Schilling's journal für gasbeleuchtung und verwandte beleuchtungsarten sowie für wasserversorgung; organ des Deutschen vereins von gas- und wasserfachmännern."

SCHILLING'S journal für gasbeleuchtung. *See* Journal für gasbeleuchtung.

665.8 Acetylene. Carbon dioxide

GIBBS, William E.

Lighting by acetylene; generators, burners and electric furnaces. 1898.....665.8 G36

Popular exposition of methods and appliances used. Contains a list of United States patents on calcium carbid and acetylene apparatus to February 22, 1898.

LEWES, Vivian B.

Acetylene; a handbook for the student and manufacturer.

1900665.8 L67

Most exhaustive and authoritative treatise on the subject, (1900).

THOMPSON, G. F.

Acetylene gas, its nature, properties and uses; also calcium carbide, its composition, properties and method of manufacture. 1898.....665.8 T38

The same. 1898.....r665.8 T38

Short popular work, dealing especially with the use of acetylene as an illuminant.

LUHMANN, E.

Die kohlen säure; eine ausführliche darstellung der eigenschaften, des vorkommens, der herstellung und der technischen verwendung dieser substanz. 1885. (Hartleben's chemisch-technische bibliothek.).....r665.81 L97

665.9 Incandescent gas-lighting

CASTELLANI, L.

Das gasglühlicht, die fabrikation der glühnetze ("strümpfe");
 übersetzung und bearbeitung von M. L. Baczewski. 1901.
 (Hartleben's chemisch-technische bibliothek.).....r665.9 C26
 Contains an historical sketch of incandescent gas-lighting, the sources,
 chemical and physical properties of the chemicals used, and practical
 directions for making the incandescent mantles.

PERROUX, Jules.

Manière de fabriquer soi-même les capuchons à incandes-
 cence par le gaz. 1897.....r665.9 P44

TRUCHOT, P.

L'éclairage à incandescence par le gaz et les liquides
 gazéfiés. 1899. (Bibliothèque de la Revue générale des
 sciences.)665.9 T77
 Describes the different systems, and the practical carrying-out of those
 in common use.

666 Ceramics. Glass

SHAW, Simeon.

Chemistry of the several natural and artificial heterogeneous
 compounds used in manufacturing porcelain, glass and
 pottery. 1900.....q666 S53
 Reprint of the edition of 1837.
 While the theoretical part is exceedingly old-fashioned, and does not
 conform to modern views of chemistry, there is much of value on the
 practical side which has not been given elsewhere.

THONINDUSTRIE-ZEITUNG; fachzeitung für die interes-

sen der ziegel-, verblendstein-, chamotte-, töpferwaren-,
 steingut-, porzellan-, gips-, kalk-, cement-, cement-
 waren- und kunststeinindustrie sowie des betonbaues;
 [triweekly]. v.22-date. 1898-date.....qr666.05 T39
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666.1 Glass

APPERT, Léon, & Henrivaux, Jules.

Le verre et ses nouvelles applications.....qr666.1 A64
 Extrait de la Revue technique de l'Exposition universelle de 1889.
 Verre et verrerie. 2v. 1894. (Encyclopédie industrielle.)..q666.1 A64
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ARNOUX, L. and others.

Pottery; Glass and silicates; Furniture and woodwork. 1877.
 (British manufacturing industries.).....666.1 A76
 Contents: Pottery, by L. Arnoux.—Glass and silicates, by F. S. Barff.—
 Furniture and woodwork, by J. H. Pollen.

BARBER, Edwin AtLee.

American glassware, old and new; a sketch of the glass
 industry in the United States, and manual for collectors
 of historical bottles. 1900.....666.1 B23
 Brief historical sketch of the industry with a list of all known designs
 of historical bottles, or bottles designed to commemorate notable
 events or persons.

BENRATH, H. E.

Die glasfabrikation. 1875.....666.I B44

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for the practical glassmaker, comprising facts, figures,
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Die glasindustrie. 1875.....r666.I F19

Officieller ausstellungs-bericht herausgegeben durch die general-direc-
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FIELD, Kate.

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FISCHER, Franz, (pseud. Wilhelm Mertens).

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General treatise, covering the chief divisions of the industry briefly and
practically.

Die kunst der glasmalle-verarbeitung. 1892.....666.I F52

Das sandstrahl-gebläse im dienste der glasfabrikation.

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HENRIVAUX, Jules.

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Die glas-, porzellan-, und email-malerei in ihrem ganzen umfange. 1894. (Hartleben's chemisch-technische bibliothek.)r666.1 H47

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HOVESTADT, H.

Jenaer glas und seine verwendung in wissenschaft und technik. 1900.....r666.1 H84

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Reminiscences of glass-making. 1865.....666.1 J19

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Glass. [1878.] (South Kensington museum art hand-books.)666.1 N23

The same. 1879. (South Kensington museum art hand-books.)r666.1 N23g

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Carefully arranged and interesting essay on artistic glass-work from the earliest times to the middle of the 18th century.

Notes on the history of glass-making; prepared as an introduction to the catalogue of the collection of glass of various periods, formed by Felix Slade and bequeathed

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 Le verre; son histoire, sa fabrication. 1877.....666.1 P376
 Thorough description of glass manufacture and working in France at time of writing. Gives considerable space to history.
- PELLATT, Apsley.
 Curiosities of glass making, with details of the processes and productions of ancient and modern ornamental glass manufacture. 1849.....666.1 P37
 Brief popular description of methods of making, working and ornamenting glass.
- PORTER, George Richardson.
 Treatise on the progressive improvement and present state of the manufacture of porcelain and glass. 1832.
 (Cabinet cyclopædia, v.26.).....r666.1 P83
 Good description of the technical condition of these industries in England in the early part of the 19th century.
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- SHENSTONE, William Ashwell.
 Methods of glass blowing. 1894.....666.1 S54
- TSCHEUSCHNER, E.
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- WEEKS, Joseph Dame.
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- WETZEL, Carl.
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- Die herstellung grosser glaskörper bis zu den neuesten fortschritten. 1900. (Hartleben's chemisch-technische bibliothek.)666.1 W58
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666.2 Enamel

- BROWN, William Norman.
 Art of enamelling on metal. 1900.....666.2 B79

- Explains simply and clearly the varieties of art enamel, the processes used in their production, and the apparatus, colors and tools required.
 Handbook on japanning and enamelling for cycles, bedsteads, tinware, etc. 1901.....666.2 B79h
 Methods adapted for use in repair-shops and for work on a small scale.
- CUNYNGHAME, Henry Hardinge Samuel.
 On the theory and practice of art-enamelling upon metals.
 1899666.2 C92
 For workmen and amateurs. Describes preparation and use of enamels and discusses the craft from the artistic point of view.
- FURNIVAL, William Jones.
 Researches on leadless glazes. 1898.....r666.2 F99
 Contains a number of formulæ invented by the author and other investigators, with a detailed description of the results of tests of each.
- RANDAU, Paul.
 Enamels and enamelling; tr. fr. the German by Charles Salter. 1900.....666.2 R18
 Treats very thoroughly of the technical industry. Devotes but little space to art work.
 Die fabrikation der emaille und das emailiren. 1900.
 (Hartleben's chemisch-technische bibliothek.).....r666.2 R18
- SCHMIDT, Christian Heinrich.
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 Theory and practice of their manufacture and use.

666.3-666.6 Ceramics

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Transactions, containing the papers and discussions of the annual meeting (1st-date), 1899-date. 1900-date.....r666.3 A51

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Contents: The chemistry of pottery.—Analysis and synthesis.—Potters' clays and their components.—The biscuit oven.—Pyrometry.—Glazes and their composition.—Colours and colour making.
 Brief elementary manual.

LANGENBECK, Karl.

Chemistry of pottery. 1895.....666.3 L24

SCHAMBERGER, J. W.

Die keramische praxis; populäre anleitung zur erzeugung keramischer producte aller art, unter berücksichtigung der einschlägigen maschinen und sonstiger hilfsapparate zur bereitung von massen und glasuren, nebst den erforderlichen brennöfen. 1901. (Hartleben's chemisch-technische bibliothek.).....r666.3 S29
 Brief manual, founded on the author's experience. Written in clear, simple language.

SEGER, Hermann August.

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 v.1. Treatises of a general scientific nature.—Essays relating to brick and terra cotta.—Essays referring to earthenware and stoneware.—

- Articles treating of refractory wares.
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 Life of the author, by H. Hecht, v.1, p.11–21.
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- SWOBODA, Carl B.**
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 (Hartleben's chemisch-technische bibliothek.).....r666.3 S97
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 Die keramik; oder, Die fabrikation von töpfer-geschirr, steingut, fayence, steinzeug, terralith, sowie von französischen, englischem und hart-porzellan. 1897. (Hartleben's chemisch-technische bibliothek.).....r666.3 W79
 Treats subject practically; describes machinery and processes; gives receipts for mixtures, etc.
- GRIMM, Hans.**
 Die fabrikation des feldspat-porzellans. 1901. (Hartleben's chemisch-technische bibliothek.)r666.5 G91
 Treats of materials, and their preparation, modeling of wares, burning, decorating, etc. Contains numerous illustrations of machinery and furnaces.
- SANDEMAN, Ernest Albert.**
 Notes on the manufacture of earthenware. 1901.....666.6 S21
 Elementary treatise, paying particular attention to practical matters. Intended as an introduction to the study of larger works.
- STEINBRECHT, Gustav.**
 Die steingut-fabrikation. 1891. (Hartleben's chemisch-technische bibliothek.).....r666.6 S81
 Brief popular manual on the manufacture of faience, for students and workmen.

666.7 Bricks. Tiles

- BRICKMAKER**; [semimonthly]. v.9–16, in 4. 1891–93...qr666.7 B74
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- DAVIS, Charles Thomas.**
 Practical treatise on the manufacture of brick, tiles and terra-cotta. 1895.....666.7 D31
 American practice. Clay, fire, pressed and glazed brick, sewer pipe, drain-tile, ornamental tile, roofing-tile and architectural terra-cotta are included.
- HARRIS, George F.**
 Science of brickmaking. 1897. (The "British clay-worker" manuals.).....666.7 H29
- LEFÈVRE, Léon.**
 Architectural pottery; tr. fr. the French by K. H. Bird and W. M. Binns. 1900.....qb666.7 L53
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 Bibliography, p.485–486.
 "Thorough, well-arranged and intelligent account of all the materials, processes and appliances used in the manufacture." *American architect*, 1901.

ZWICK, Hermann.

- Die natur der ziegelthone und die ziegel-fabrikation der gegenwart. 1894. (Hartleben's chemisch-technische bibliothek.)r666.7 Z94
Treats especially of the chemical and physical properties of the clays and of the theoretical side of brick-making.

666.8 Artificial stone

GILLMORE, Quincy Adams.

- Practical treatise on Coignet-béton and other artificial stone. 1871.....r666.8 G41
Contents: Coignet-béton.—Ransome's silicious concrete stone.—The Frear artificial stone.—The American building block (Foster's and Van Derburgh's patents).—The Sorel artificial stone (Union stone company, Boston, Mass.).—Portland stone.
Report on Coignet-béton is no. 19 of the "Professional papers," Corps of engineers, United States army.
Describes methods of manufacture, gives results of tests of strength and estimates of cost.

666.9 Cements. Mortars

BROWN, Charles Carroll, *ed.*

- Directory of American cement industries and hand-book for cement users. 1902r666.9 B78d
Contents: Introduction.—Testing of cement.—Specifications for cement.—The uses of cement.—Specifications for the use of cement.—Data for estimates of cement work.—Cement laboratories.—Lime and plaster.—Freight rates on cement.—Descriptions of works and of processes for the manufacture of cement.—Directory of American cement industries.—Directory of cement manufacturers.—Directory of cement brands.—Directory of general sales agents.—Foreign cement trade.—Dealers in cement.—Contractors and large users of cement.—Engineers, architects and other supervisors of the use of cement.—Workers in cement.—Cement tests and analyses; List of laboratories making analyses and tests of cement and cement materials; Engineers who design cement plants.—Machinery and supplies for cement plants, machinery and tools for cement users.—Dealers in lime and plaster.—Manufacturers of lime.—Manufacturers of plaster.

BUTLER, David Butler.

- Portland cement; its manufacture, testing and use. 1899. .666.9 B97

CANDLOT, E.

- Ciments et chaux hydrauliques; fabrication, propriétés, emploi. 1898.....r666.9 C17
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One of the best general treatises (1902).

ENGINEERING RECORD.

- Cement industry; descriptions of Portland and natural cement plants in the United States and Europe, with notes on materials and processes in Portland cement manufacture. 1900.....666.9 E64
Selected reprint of articles from the "Engineering record."

FEICHTINGER, G.

- Die chemische technologie der mörtelmaterialien. 1885.
(Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r666.9 M53
Manufacture, properties, testing and uses of lime, gypsum, mortars, cements and artificial stone.
Bound with Mayer's "Chemische technologie des holzes als baumaterial."

JAMESON, Charles Davis.

Portland cement; its manufacture and use. 1898.....666.9 J16

LESLEY, Robert W.

History of the Portland cement industry in the United States. 1900.....r666.9 L64

REDGRAVE, Gilbert Richard.

Calcareous cements; their nature and uses. 1895.....666.9 R27

Concise accounts of the processes of manufacturing the various cements, including descriptions of the machinery used, methods of analysing and testing, mortar and concrete and their properties, and a short historical account of the cement industry.

ZWICK, Hermann.

Hydraulischer kalk und Portland-cement, nach rohmaterialien, physikalischen und chemischen eigenschaften, untersuchung, fabrikation und werthstellung; unter besonderer rücksicht auf den gegenwärtigen stand der cement-industrie. 1892. (Hartleben's chemisch-technische bibliothek.).....r666.9 Z94

Kalk und luftmörtel; auftreten und natur des kalksteines, das brennen desselben und seine anwendung zu luftmörtel. 1879. (Hartleben's chemisch-technische bibliothek.)r666.9 Z94k
Thorough practical discussion of methods, machinery, etc.

667 Bleaching. Dyeing. Cleaning

SOXHLET, V. H.

Die kunst des färbens und beizens von marmor, künstlichen steinen, von knochen, horn und elfenbein und das färben und imitiren von allen holzsorten. 1899. (Hartleben's chemisch-technische bibliothek.).....r667 S73
Practical manual of receipts and instructions.

JOCLÉT, Victor.

Die kunst- und feinwäscherei in ihrem ganzen umfange. 1895. (Hartleben's chemisch-technische bibliothek.)...r667.1 J33k

Vollständiges handbuch der bleichkunst; oder, Theoretische und praktische anleitung zum bleichen von baumwolle, flachs, hanf, wolles, seide, jute, chinagras und tussarseide. 1895. (Hartleben's chemisch-technische bibliothek.)r667.1 J33

Includes also methods for bleaching feathers, bristles, bones, ivory, wax, marble, paper, straw, shellac, etc.

BERGHOF, Albert.

Die organischen farbstoffe thierischen und pflanzlichen ursprunges und deren anwendung in der färberei und zeugdruckerei. 1902. (Hartleben's chemisch-technische bibliothek.)r667.2 B45
Methods of making and using, with description of their properties and effects.

BRAUNER, Alfred.

Die färberei à ressort, das färben der schmuckfedern und die bearbeitung der haare. 1887. (Hartleben's chemisch-technische bibliothek.).....r667.2 B71

BRAUNSDORF, W.

Das trocknen, bleichen, färben, bronziren und vergolden natürlicher blumen und gräser, sowie sonstiger pflanzen-theile, und ihre verwendung zu bouquets, kränzen und decorationen. 1888. (Hartleben's chemisch-technische bibliothek.).....r667.2 B716

FÄRBER-ZEITUNG; zeitschrift für färberei, zeugdruck und den gesammten farbenverbrauch; [semimonthly]. v.1-date. 1890-date.....qr667.2 F22

HUMMEL, John James.

Dyeing of textile fabrics. 1898. (Manuals of technology.)..667.2 H92
Theoretical and practical. Describes the various fibers, their preparation for dyeing, the various classes of dyes and the methods and machinery employed in their application.

JOURNAL of the Society of dyers and colourists, and all interested in the use or manufacture of colours, and in calico printing, bleaching, etc.; monthly. v.1-date. 1885-dateqr667.2 J46

KNECHT, Edmund, and others.

Manual of dyeing; for the use of practical dyers, manufacturers, students, and all interested in the art of dyeing. 3v. 1893.....r667.2 K33
v.1-2. Text. v.3. Specimens of dyed fabrics.

LAU, Louis.

Praktischer unterricht in der heutigen putzfedernfärberei, lap-penfärberei mit küpenführung und chemischer und nass-wäscherei. 1890. (Hartleben's chemisch-technische biblio-thek.) r667.2 L36
Brief manual on dyeing feathers and garments, and methods of cleaning, with receipts for preparing dyes.

PATERSON, David.

Science of colour mixing; a manual intended for the use of dyers, calico printers and colour chemists. 1900....667.2 P29
Treatise on the theory, for practical workers.

JOCLÉT, Victor.

Die chemische bearbeitung der schafwolle; oder, Das ganze der färberei von wolle und wollenen gespinnten. 1877. (Hartleben's chemisch-technische bibliothek.)..r667.22 J33
Describes the colors used and the special methods employed for various classes of work.

LAU, Louis, & Hampe, Alwin.

Praktischer unterricht in der heutigen wollenfärberei, enthal-tend wäscherei und carbonisirung, alizarin-, holz-, säure-, anilin- und waidküpen-färberei für lose wolle, garne und stücke. 1892. (Hartleben's chemisch-technische biblio-thek.)r667.22 L36
Collection of receipts for various colors, with directions for their use.

HURST, George H.

Silk dyeing, printing and finishing. 1892. (Technological handbooks.)667.23 H95
Contains an appendix of receipts and patterns.
Describes the physical and chemical properties of the silks in use, in-cluding the "wild silks," the theory and methods of dyeing silk and mixed silk fabrics, the printing of silk, the machinery used in dyeing and finishing, and the methods of testing and assaying raw and dyed silks.

667.26 Artificial dyes

BERSCH, Josef.

Die fabrikation der anilinfarbstoffe und aller anderen aus dem theere darstellbaren farbstoffe, (phenyl-, naphthalin-, anthracen- und resorcinfarbstoffe), und deren anwendung in der industrie. 1878. (Hartleben's chemisch-technische bibliothek.).....r667.26 B46
 Statement in simple form of the chemistry, manufacture and uses of the coal-tar colors.

BOLLEY, Pompejus Alexander, and others.

Die theerfarbstoffe. 3v. 1867-97. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r667.26 B61
 Valuable historically, owing to the long period covered in its preparation.

BRUNCK, H.

History of the development of the manufacture of indigo.
 1900r667.26 B83
 By the managing director of the Badische anilin- und sodafabrik, manufacturers of synthetic indigo.

FRIEDLAENDER, P.

Fortschritte der theerfarbenfabrikation und verwandter industriezweige, an der hand der systematisch geordneten und mit kritischen anmerkungen versehenen deutschen reichs-patente, 1877-1894. 3v. in 4. 1888-96qr667.26 F95
 Classified collection of the patents, with critical notes and explanations. Numbers of corresponding English and United States patents are given for such processes as were protected in those countries.

HÖDL, E. J.

Die praktische anwendung der theerfarben in der industrie. 1885. (Hartleben's chemisch-technische bibliothek.)r667.26 H66

HURST, George H. comp.

Dictionary of the coal tar colors. 1896.....qr667.26 H95

JAUBERT, George F.

L'industrie des matières colorantes azoïques. [1899.]
 (Encyclopédie scientifique des aide-mémoire.).....r667.26 J21

NIETZKI, Rudolf.

Chemistry of the organic dyestuffs; tr. fr. the German by A. Collin and W. Richardson. 1892.....667.26 N33

SCHULTZ, Gustav, & Julius, Paul.

Systematic survey of the organic colouring matters; tr. with additions by A. G. Green. 1894.....qr667.26 S38
 Gives in tabular form the commercial and scientific names, formulae, method of preparation, year of discovery, patents, literature, behavior with reagents, dyeing properties, method of use, etc., for over 400 coloring matters.

The same. 1904.....qr667.26 S38s

667.27 Natural dyes

MIERZINSKI, Stanislaus.

Die gerb- und farbstoff-extracte. 1887. (Hartleben's chemisch-technische bibliothek.).....r667.27 M67
 Treats of their constitution, properties and methods of manufacture.

RUPE, Hans.

- Die chemie der natürlichen farbstoffe. 1900. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r667.27 R87
Summary of knowledge of the chemical composition, properties and reactions of the natural dyestuffs.

667.29 Mordants

WOLFF, H.

- Die beizen; ihre darstellung, prüfung und anwendung. 1885. (Hartleben's chemisch-technische bibliothek.)...r667.29 W83
Brief theoretical and practical discussion of their properties and uses.

667.3 Cotton-dyeing. Calico-printing

GROSSE, Eduard.

- Der gold- und farbendruck auf calico, leder, leinwand, papier, sammet, seide und andere stoffe. 1889. (Hartleben's chemisch-technische bibliothek.).....r667.3 G93
Largely devoted to methods used in book ornamentation. Gives practical methods and discusses theory of design, etc.

HERZINGER, Eduard.

- Die walkecht-färberei der ungesponnenen baumwolle. 1894. (Hartleben's chemisch-technische bibliothek.).....r667.3 H48
Collection of receipts for various colors.

ROMEN, Carl.

- Die colorie der baumwolle auf garne und gewebe, mit besonderer berücksichtigung der türkischroth-färberei. 1878. (Hartleben's chemisch-technische bibliothek.)...r667.3 R66
Describes properties of the various dyes and the practical methods of using them.

ROTHWELL, Charles Frederick Seymour.

- Printing of textile fabrics; a manual on the printing of cotton, woollen, silk and half-silk fabrics. 1897.....667.3 R76
Confined to practical description of machinery and processes, omitting theory.

SOXHLET, V. H.

- Die praxis der anilin-färberei und -druckerei auf baumwoll-waaren. 1890. (Hartleben's chemisch-technische bibliothek.)r667.3 S73
Confined to discussion of the use of aniline colors. Omits theory.

WHARTON, B. F. & Soxhlet, V. H.

- Die kattun-druckerei. 1892. (Hartleben's chemisch-technische bibliothek.).....r667.3 W59
Brief practical manual covering the preparation of the material, colors used, methods, etc.

667.4-667.5 Inks

LEHNER, Sigmund.

- Manufacture of ink; tr. fr. the German, with additions by W. T. Brannt. 1892r667.4 L55m
Contents: Introduction.—The various kinds of ink.—Writing inks.—The raw materials used in the preparation of inks containing tannin.—Chemical constitution of inks containing tannin.—Directions for the preparation of inks containing tannin.—Logwood and tannin inks.—Ferric oxide inks.—Alizarin inks.—Inks from extractive matter.—

Logwood inks.—Copying ink.—The hektograph and hektograph inks.—Safety inks.—Ink extracts and ink powders.—Preserving agents for ink.—Change in the color of ink in old documents and methods of making faded writing legible.—Colored inks.—Metallic inks.—Solid inks (India or Chinese ink).—Lithographic inks and crayons.—Printing ink.—Ink pencils or aniline pencils.—Marking inks.—Ink specialties.—Sympathetic inks.—Stamp and stencil inks.—Wash-blue or laundry-blue.

Die tinten-fabrikation und die herstellung der hektographen und hektographirtinten; die fabrikation der tusche, der tintenstifte, der stempeldruckfarben, sowie des waschblauen. 1899. (Hartleben's chemisch-technische bibliothek.).....r667.4 L55
Receipts and directions for the manufacture of a large variety of inks.

ANDÉS, Louis Edgar.

Oel- und buchdruckfarben; praktisches handbuch für firniss- und farbenfabrikanten. 1889. (Hartleben's chemisch-technische bibliothek.).....r667.5 A55
Treats chiefly of the manufacture and assaying of linseed-oil varnishes, colors and printers' inks, describing in detail the processes, materials used, etc.

667.6 Paints. Pigments

ANDÉS, Louis Edgar.

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Iron corrosion, anti-fouling and anti-corrosive paints.

1900r667.6 A55

Discusses at length the different varnishes and paints, their preparation, testing and applicability.

BERSCH, Josef.

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Die fabrikation der mineral- und lackfarben. 1893. (Hartleben's chemisch-technische bibliothek.).....r667.6 B46f

Practical directions for their manufacture, methods of analysis and testing, etc.

Manufacture of mineral and lake pigments; a text-book for manufacturers, merchants, artists and painters; tr.

by A. C. Wright. 1901.....r667.6 B46m

Practical directions for their manufacture, methods of analysis and testing, etc.

FRIEDBERG, Wilhelm.

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FÜRSTENAU, Carl.

Das ultramarin und seine bereitung. 1880. (Hartleben's chemisch-technische bibliothek.).....r667.6 F99

Brief practical manual on its manufacture, use, testing, etc.

HURST, George H. comp.

Dictionary of chemicals and raw products used in the

- manufacture of paints, colours, varnishes and allied preparations. 1901.....r667.6 H95
 Brief statements of chemical and physical properties, methods of manufacture, tests for purity, uses, etc.
 Painters' colours, oils and varnishes; a practical manual. 1892667.6 H95
JENNISON, Francis H.
 Manufacture of lake pigments from artificial colours. 1900667.6 J26
 Useful theoretical and practical treatise. Pays particular attention to the chemistry of the subject.
LOWE, Houston.
 Hints on painting structural steel, and notes on prominent paint materials. 1900.....667.6 L95
 Monograph on the various causes of failure of the oils and pigments used for painting steel, and on the right and wrong ways of using them. Written in very plain, untechnical language.
MIERZINSKI, Stanislaus.
 Handbuch der farben-fabrikation; praxis und theorie. 2v. 1898. (Hartleben's chemisch-technische bibliothek.)...r667.6 M67
RENTZSCH, Otto.
 Das gesamtgebiet der vergolderei nach den neuesten fortschritten und verbesserungen. 1890. (Hartleben's chemisch-technische bibliothek.).....r667.6 R34
SMITH, J. Cruickshank.
 Manufacture of paint; a practical handbook for paint manufacturers, merchants and painters. 1901.....667.6 S65
 Describes methods of grinding the various pigments, machinery used, etc.

667.7 Varnishes. Polishes. Lacquers

- ANDÉS, Louis Edgar.**
 Die fabrikation der copal-, terpinöl- und spiritus-lacke. 1895. (Hartleben's chemisch-technische bibliothek.)...r667.7 A55
 Die fabrikation der siegel- und flaschenlacke; mit einem anhang, Die fabrikation des brauer-, wachs-, schu-macher- und bürstenpeches. 1885. (Hartleben's chemisch-technische bibliothek.).....r667.7 A55f
 Practical manual describing raw materials and methods of manufacture, and giving numerous formulae.
 Die fabrikation der stiefelwichse und der leder-conser-vierungsmittel. 1893. (Hartleben's chemisch-technische bibliothek.)r667.7 A55s
 Methods of testing raw materials, and receipts for preparation of various blackings, polishes, greases, etc.
ANDRES, Erwin.
 Die fabrikation der lacke, firnisse, buchdrucker-firnisse und des siegellackes. 1891. (Hartleben's chemisch-technische bibliothek.).....r667.7 A56
 Describes raw materials and their properties, methods of manufacture, machinery used, etc.
BRANNT, William Theodore.
 Varnishes, lacquers, printing inks and sealing-waxes; their raw materials and their manufacture. 1893.....667.7 B71
 Handbook of methods and receipts.

BROWN, William Norman.

- Principles and practice of dipping, burnishing, lacquering
and oronzing brass ware. 1900.....667.7 B79
Elementary manual for beginners.

LIVACHE, Achille.

- Manufacture of varnishes, oil crushing, refining and boiling,
and kindred industries; tr. and extended and adapted
to English practice, with original recipes by J. G. McIntosh. 1899.....667.7 L74
Describes the sources and character of the raw materials, methods of
manufacture and testing, etc. Chief value is in section on raw materials,
as the practical methods are not recent (1903), and the chemical
statements are often erroneous.

STANDAGE, H. C. *comp.*

- Practical polish and varnish maker; containing 750 practical
receipts and formulæ. 1892.....667.7 S78

WAHLBURG, Victor.

- Die schleif-, polir- und putzmittel für metalle aller art,
glas, holz, edelsteine, horn, schildpatt, perlmutter,
steine, u. s. w. 1898. (Hartleben's chemisch-technische
bibliothek.)r667.7 W13

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BRANNT, William Theodore, *ed.*

- Practical treatise on the manufacture of soap and candles.
1888668.I B71
Chiefly a compilation from standard German works. Contains a list of
United States patents relating to these manufactures, issued from 1790
to 1888.

CAMERON, James, *ed.*

- Soaps and candles. 1896.....668.I C15
Bibliography, p.11.
Brief manual, for students, describing their manufacture. Contains a
chapter on soap analysis.

DEITE, Carl.

- Die darstellung der seifen, parfümerien und cosmetica.
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von P. A. Bolley und anderen.).....r668.I D38
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Chiefly composed of receipts and instructions for use.

ENGELHARDT, Alwin.

- Handbuch der praktischen seifen-fabrikation. 2v. 1896.
(Hartleben's chemisch-technische bibliothek.).....r668.I E63h
Handbuch der praktischen toiletteseifen-fabrikation; praktische
anleitung zur darstellung aller sorten von deutschen,
englischen und französischen toiletteseifen,
sowie der medicinischen seifen, glycerinseifen und der
seifenspecialitäten. 1888. (Hartleben's chemisch-technische
bibliothek.).....r668.I E63
Gives special attention to the mechanical equipment of factories.

GADD, W. Lawrence.

- Soap manufacture; a treatise on the fabrication of hard
and soft soaps, and analytical methods for the determination
of their chemical composition. 1893. (Tech-

- nological handbooks.).....668.1 G12
 Brief treatise on theory and practice, intended primarily for students.
- GATHMANN, Henry.
 American soaps; a complete treatise on the manufacture of soap, with special reference to American conditions and practice. 1893.....q668.1 G23
 Processes, machinery, etc. are described in a clear, practical manner.
- HURST, George H.
 Soaps; a practical manual of the manufacture of domestic, toilet and other soaps. 1898.....668.1 H95
 "Author...has aimed at presenting...the principal processes...with an account of the raw materials used and the scientific principles which underlie the various operations." *Preface.*
- WILTNER, Friedrich.
 Die fabrikation der toilette-seifen. 1884. (Hartleben's chemisch-technische bibliothek.).....r668.1 W77f
 Describes machinery and processes, and gives many receipts.
 Die seifen-fabrikation. 1900. (Hartleben's chemisch-technische bibliothek.).....r668.1 W77
 Brief practical treatise, describing machinery and methods. Includes chapters on medicinal and toilet soaps, specialties and soap analysis.

668.2 Glycerin. 668.3 Glue

- KOPPE, Siegfried Walter.
 Das glycerin; seine darstellung, seine verbindungen und anwendung in den gewerben, in der seifenfabrikation, parfumerie und der sprengtechnik. 1883. (Hartleben's chemisch-technische bibliothek.).....r668.2 K38
 Manufacture, analysis and properties of glycerin, manufacture of nitro-glycerin and dynamite, and use of glycerin in various manufactures are briefly treated. Chapters are given on the determination of glycerin and nitro-glycerin.
- RIDEAL, Samuel.
 Glue and glue testing. 1900.....668.3 R43
 Practical treatise on the manufacture and uses of glue and gelatin, and the methods of testing them.
- STANDAGE, H. C. *comp.*
 Cements, pastes, glues and gums. 1893.....b668.3 S78
 Receipts for their manufacture and methods of application.

668.4 Gums. Resins

- ANDÉS, Louis Edgar.
 Gummi arabicum und dessen surrogate in festem und flüssigem zustande. 1896. (Hartleben's chemisch-technische bibliothek.).....r668.4 A55
 Practical manual of the manufacture of gums, mucilages, pastes, etc.
- DAWIDOWSKY, F.
 Die leim- und gelatine-fabrikation. 1893. (Hartleben's chemisch-technische bibliothek.).....r668.4 D32
 Describes machinery and processes used in their manufacture, methods of testing glue, uses, varieties, etc.
- LEHNER, Sigmund.
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technische bibliothek.).....r668.4 L55

Contains methods of making and using a large number of selected cements and pastes adapted to all the requirements of various trades.

THENIUS, Georg.

Die harze und ihre producte; deren abstammung, gewinnung und technische verwerthung; nebst einem anhang, Ueber die producte der trockenen destillation des harzes.

1895. (Hartleben's chemisch-technische bibliothek.)...r668.4 T34

668.5 Essences. Perfumes

ASKINSON, George William.

Die fabrikation der ätherischen oele. 1887. (Hartleben's chemisch-technische bibliothek.).....r668.5 A83

Perfumes and their preparation, with a description of aromatic substances. 1892.....668.5 A83

Directions for making a number of popular perfumes, information concerning the origin and properties of the raw materials, and methods for determining their genuineness and purity.

GILDEMEISTER, Eduard, & Hoffmann, Friedrich.

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HORATIUS, Theodor.

Die fabrikation der aether und grundessenzen; nebst einem anhang, Ueber die zusammensetzung von liqueuren, branntweinen, rum, arrac, cognac und verschiedenen weinen. 1895. (Hartleben's chemisch-technische bibliothek.)r668.5 H79

Receipts for artificial fruit essences, extracts and syrups, liqueurs, rum and absinthe, with practical directions for their manufacture.

IDRIS, T. H. W.

Notes on essential oils, with special reference to their use, composition, chemistry and analysis. 1900.....668.5 I14
Brief statement of chemical and physical properties, occurrence, etc., for use in the laboratory.

JAUBERT, George F.

Les parfums comestibles. [1900.] (Encyclopédie scientifique des aide-mémoire.).....r668.5 J21

Short descriptions of properties and manufacture of the more important. Special attention is given to artificial extracts.

KOLLER, Theodor.

Die technik der kosmetik; handbuch der fabrikation, verwerthung und prüfung aller kosmetischen stoffe und der kosmetischen specialitäten. 1901. (Hartleben's chemisch-technische bibliothek.).....r668.5 K36t

Treats of the manufacture of toilet-soaps and waters, tooth-powders, etc., describing the materials used, methods of manufacture and tests for purity. Gives formulæ for each class of cosmetics, and states the composition of many well-known preparations.

LABBÉ, Henri.

Essai des huiles essentielles. [1899.] (Encyclopédie scientifique des aide-mémoire.).....668.5 L11

Contains general methods for determining the constants of the essential oils; and special methods for testing the principal commercial ones for

adulteration. Also gives a list of the essential oils with their constants and principal constituents.

PARRY, Ernest John.

Chemistry of essential oils and artificial perfumes. 1899. r668.5 P26

Systematic presentation of our present knowledge of the properties and composition of essential oils, and of the methods of artificial perfume making.

PIESSE, Charles Henry, *ed.*

Art of perfumery and the methods of obtaining the odours of plants, the growth and general flower farm system of raising fragrant herbs. 1891. .668.5 P57

Describes flowers, gums, etc. used as raw materials, and methods of preparing them for use. Gives formulæ for numerous perfumes, fancy soaps, mouth-washes, cosmetics, etc.

POPPER, Heinrich.

Die fabrikation der nichttrübenden ätherischen essenzen und extracte; nebst einem anhang, Die erzeugung der in der liqueur-fabrikation zur anwendung kommenden farb-tincturen. 1889. (Hartleben's chemisch-technische bibliothek.) .r668.5 P81

Contains process used and a number of receipts for various essences and extracts.

POWER, Frederick Belding, *comp.*

Descriptive catalogue of essential oils and organic chemical preparations. 1894. .r668.5 P87

Synopsis of the physical properties, chemical composition, sources, method of assaying, etc. of the more important, treating especially of those manufactured by Schimmel & co.

SCHIMMEL & CO.

Semi-annual report on essential oils, April 1897-date. 1897-date .r668.5 S33

668.6 Fertilizers

See also Fertilizers, 631.5

FRIEDBERG, Wilhelm.

Die verwerthung der knochen auf chemischem wege. 1884. (Hartleben's chemisch-technische bibliothek.) .r668.6 F94

PICK, Siegmund.

Die künstlichen düngemittel. 1898. (Hartleben's chemisch-technische bibliothek.) .r668.6 P54

668.7 Distillation. Coal-tar

BERSCH, Josef.

Die verwerthung des holzes auf chemischem wege. 1893. (Hartleben's chemisch-technische bibliothek.) .r668.7 B46

KÖHLER, Hippolyt.

Die fabrikation des russes und der schwärze aus abfällen und nebenproducten; nach dem gegenwärtigen stande dieser industrie und unter benützung der besten quellen bearbeitet. 1899. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.) .r677 W82

Describes methods of manufacturing lampblack and boneblack on a large scale, methods of testing, valuing, etc.

Bound with Witt's "Chemische technologie der gespinntfasern."

LUNGE, George.

Coal-tar and ammonia. 1900.....r668.7 L97
 Enlarged edition of his "Treatise on the distillation of coal-tar and ammoniacal liquor."

The same. 1887.....r668.7 L97

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Die industrie der steinkohlentheer-distillation und ammoniakwasser-verarbeitung. 1882. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r662.6 F52

Bound with Fischer's "Die chemische technologie des brennstoffe."

The same. 1888. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r661.11 F52

Title of the third edition is "Die industrie des steinkohlentheers und ammoniaks."

Authoritative treatise on all branches of these industries.

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MELDOLA, Raphael.

Coal and what we get from it. 1891. (Romance of science series.)r668.7 M58

The same. 1891. (Romance of science series.)r668.7 M58

Popular account of the history and mode of production of the coal-tar colors.

MILLS, Edmund James.

Destructive distillation; a manualette of the paraffin, coal tar, rosin oil, petroleum and kindred industries. 1892. r668.7 M69
 Bibliography, p.190-196.

THENIUS, Georg.

Das holz und seine destillations-producte; nebst einem anhang, Ueber gaserzeugung aus holz. 1896. (Hartleben's chemisch-technische bibliothek.)r668.7 T34h

Physical characteristics and uses of the woods of the world briefly described, useful products of wood and of its dry distillation, and the methods of preparing them.

Die technische verwerthung des steinkohlentheeres; nebst einem anhang, Ueber die darstellung des natürlichen asphalttheeres und asphaltmastix aus den asphaltsteinen und bituminösen schiefern, sowie verwerthung der nebenproducte. 1899. (Hartleben's chemisch-technische bibliothek.)r668.7 T34

Brief practical monograph on the manufacture of benzol, aniline colors, lubricants and the other useful products of coal tar.

VINCENT, Camille.

Carbonisation des bois en vases clos et utilisation des produits dérivés. 1873.....qr668.7 V34
 Treats of the manufacture of acetic acid, methyl alcohol, gas, etc.

669 Metallurgy

AGRICOLA, Georg.

De re metallica libri XII; ejusdem De animantibus subterraneis liber. 1621.....qr669 A27

The pioneer work on the science of metallurgy. Parts of it were published nearly a hundred years before this book was printed. But this edition has the advantage in completeness and elaborate illustration. Curious pictures, showing the ancient methods of managing ores, are on almost every page. Pittsburgh metallurgists will be interested in

observing how many of the old processes are still in use, and how others have been changed or superseded.

AUSTEN, Sir William Chandler Roberts-.

Introduction to the study of metallurgy. 1902.....669 A93

The same. 1891r669 A93

"Its especial value lies, not in mere descriptions of the processes and appliances of metallurgy, but in the admirable systematic course of study laid down...in the fundamental scientific principles on which the appliances used in metallurgy are constructed, its processes based, and the character of their products determined." *Nature*, 1894.

BEHRENS, H.

Das mikroskopische gefüge der metalle und legierungen.

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GREENWOOD, William Henry.

Manual of metallurgy. 2v. [1885.].....669 G85

v.1. Fuel, iron, steel, tin, antimony, arsenic, bismuth and platinum.

v.2. Copper, lead, zinc, mercury, silver, gold, nickel, cobalt and aluminum.

HIORNS, Arthur Horseman.

Practical metallurgy and assaying. 1892.....669 H58p

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HUNTINGTON, A. K. & McMillan, W. G.

Metals; their properties and treatment. 1897. (Text-books of science.).....669 H94

KERL, Georg Heinrich Bruno.

Practical treatise on metallurgy; fr. the German by Wil-

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v.2. Copper, iron.

v.3. Steel, fuel; supplement.

OVERMAN, Frederick.

Treatise on metallurgy. 1892.....669 O33

PEPPER, John Henry.

Boy's book of metals; including narratives of visits to coal, lead, copper and tin mines, with experiments relating to alchemy and the chemistry of the metallic elements. [1885.].....j669 P41

PHILLIPS, John Arthur.

Elements of metallurgy. 1891.....669 P51

The same. 1874.....r669 P51e

Gives in considerable detail an account of the metallurgical operations relating to the principal metals. Well illustrated by drawings.

RHEAD, E. L.

Metallurgy; an elementary text-book. 1895.....669 R38

RICHTER, Karl.

Zink, zinn und blei; eine ausführliche darstellung der eigenschaften dieser metalle, ihrer legierungen untereinander und mit anderen metallen. 1883. (Hartleben's chemisch-technische bibliothek.).....r669 R42

SCHNABEL, Carl.

Handbook of metallurgy. 2v. 1898.....669 S35

The same. 2v. 1898.....r669 S35

v.1. Copper.—Lead.—Silver.—Gold.

v.2. Zinc.—Cadmium.—Mercury.—Bismuth.—Tin.—Antimony.—Arsenic.—Nickel.—Cobalt.—Platinum.—Aluminium.

STÖLZEL, Carl, & Ledebur, A.

- Die metallurgie. 2v. in 3. 1863-86. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)r669 S87
 v.1. Gewinnung der metalle, by Carl Stölzel.
 v.2. Metallverarbeitung, by A. Ledebur.
 Contains several bibliographies.
 Thorough manual, paying especial attention to the mechanical side. v.2 treats of alloys and metallic preparations, and the rolling, drawing, forging, electroplating, etc. of metals.

WILLIAMS, William Mattieu, and others.

- Iron and steel; Copper smelting; Brass founding, tin plate and zinc working. 1876. (British manufacturing industries.)669 W74
 Contents: Iron and steel, by W. M. Williams.—Copper smelting, by J. A. Phillips.—Brass founding, tin plate and zinc working, by Walter Graham.
 Short accounts of history and of manufacturing processes. For general readers.

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SCHOOL of mines quarterly, 1882/83-date. v.4-date. 1883-dater669.05 S37
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RÖSSING, Adelbert.

- Geschichte der metalle. 1901.r669.09 R74
 Bibliography, p.5-8.
 Occurrence in nature, discovery and history, methods of mining, metallurgy, use, etc. are briefly given.

669.1 Iron and steel

AMERICAN IRON AND STEEL ASSOCIATION.

- Statistics of the American and foreign iron trades; annual statistical report, 1871-1890, 1892-date. 1872-date.r669.1 A51
 Reports for 1871-1873 title-page reads "Reports of the secretary;" in the report for 1874 the annual report and the statistical report have separate title-pages; report for 1875 title reads "American iron trade in 1876, by J. M. Swank; annual report to Jan. 1, 1876."

ARNOLD, John Oliver, & M'William, Andrew.

- Diffusion of elements in iron. 1899.669.8 H39
 Reprinted from the "Journal of the Iron and steel institute," May 1899.
 Results of experimental investigations of the nature of this action.
 Bound with other pamphlets.

BAUERMAN, Hilary.

- Treatise on the metallurgy of iron. 1890.669.1 B32
 The same. 1868.r669.1 B32
 Condensed handbook for practical workers.

BELL, Sir Isaac Lowthian.

- Iron trade of the United Kingdom compared with that of the other chief iron-making nations. 1886.r669.1 B41i
 On the American iron trade and its progress during six-

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- The same.* (In Iron and steel institute. Journal, v.38, p.1-208*.)r669.I05 I28 v.38
- Principles of the manufacture of iron and steel, with notes on the economic conditions of their production. 1884. 669.I B41p
- The same.* 1884.r669.I B41p
- BRITISH IRON TRADE ASSOCIATION.**
- Annual report [1st-4th, 8th, 13th, 18th] of the secretary to the members, 1877-1880, 1884, 1889, 1894. 1878-94r669.I B75
- 1st-4th reports have the title "Iron, steel and allied trades," 1877-1880; 18th report has the title "Iron and steel industries in 1894."
- CAMPBELL, Harry Huse.**
- Manufacture and properties of iron and steel. 1903.669.I C15
- The same.* 1896r669.I C15
- Title reads "Manufacture and properties of structural steel."
- Critical study of the subject. Describes the manufacture of the several varieties of open-hearth and Bessemer steel, their physical properties, and the effect on these of various other elements.
- CARNEGIE STEEL CO. Pittsburgh.**
- Edgar Thomson steel works and blast furnaces. 1890.r669.I C21
- DUNLAP, Thomas, ed.**
- Wiley's American iron trade manual of the leading iron industries of the United States. 1874.qr669.I D92
- Directories of the manufacturers of all lines of iron and steel in the United States, with statistics of production, imports, exports, costs, wages, etc., and a description of the iron ore regions. Some of the larger plants, as the Keystone bridge works and Baldwin locomotive works, are described at length and illustrated.
- DÜSSELDORF, VEREIN DEUTSCHER EISENHÜTTEN-LEUTE.**
- Gemeinfassliche darstellung des eisenhüttenwesens. 1901.r669.I D95
- Brief outline in popular language.
- FAIRBAIRN, Sir William.**
- Iron; its history, properties and processes of manufacture. 1865669.I F15
- The same.* 1869.r669.I F15
- Gives considerable space to a discussion of the mechanical properties, methods of testing, etc. of iron and steel.
- GREENWOOD, William Henry.**
- Steel and iron. 1893. (Manuals of technology.)669.I G85
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- "Aim...has been to produce, within moderate limits, a comprehensive manual of practical information, and of the scientific principles upon which the practice rests." *Preface.*
- HIORNS, Arthur Horseman.**
- Iron and steel manufacture. 1889.669.I H58
- The same.* 1889.r669.I H58
- Brief outline of the chemistry and metallurgy of iron, for the use of beginners.
- HORNE, Henry.**
- Essays concerning iron and steel; the first containing observations on American sand-iron, the second, observations founded on experiments on common iron-

- ore, and an appendix discovering a more perfect method of charring pit-coal. 1773.....r669.1 H79
Describes experiments with black iron-sand from Virginia and gives author's theories regarding the conversion of cast-iron into steel.
- INTERNATIONAL ENGINEERING CONGRESS, Glasgow, 1901.
Proceedings of section 5: Iron and steel. (In Iron and steel institute. Journal, 1901, v.60, p.1-340.)...r669.105 I2863 v.60
- JORDAN, Samson.
Album to the course of lectures on metallurgy at the Central school of arts and manufactures of Paris. 2v. 1878qr669.1 J42
v.1. Preparation of vegetable fuel.—Preparation of coke.—Blast furnaces.—Steam boilers.—Blowing engines.—Hot air ovens.—Varia (blast pipes, tuyeres, etc.).—Direct extraction of malleable iron from the ore.—Manufacture of charcoal bar iron.—Manufacture of puddled bars.—Manufacture of merchant bars and rails.—Manufacture of sheets and plates.—Ground plans of iron works.—Manufacture of steel.
v.2. Plates.
- JOYNSON, Francis Herbert, ed.
Iron and steel maker. 1892.....669.1 J48
The same. 1892.....r669.1 J48
Tells in plain, every-day language the methods in use for making iron and steel. Descriptions are practical and are given in detail.
- JÜPTNER von JONSTORFF, Hanns, freiherr.
Considerations on the solution theory of iron and steel. 1899669.8 H39
Reprinted from the "Journal of the Iron and steel institute," May 1899.
Results of researches in the application of the laws of solution to iron and steel.
Bound with other pamphlets.
- Grundzüge der siderologie; für hüttenleute, maschinenbauer u. s. w., sowie zur benutzung beim unterrichte bearbeitet. v.1-2. 1900-02.....r669.1 J53
v.1. Die konstitution der eisenlegierungen und schlacken.
v.2. Zusammenhang zwischen thermischer und mechanischer bearbeitung, konstitution und eigenschaften der eisenlegierungen.
"Literatur," v.1, p.291-307; v.2, p.388-399.
Author defines siderology as the study which concerns itself with the intimate morphological and chemical composition of the iron alloys, and also inquires into the ways in which these alloys are changed by outer influences (mechanical and heat treatment, etc.), and what connection exists between their composition and their physical and mechanical properties.
- KIRCHHOFF, Charles William Henry.
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OSBORN, Henry Stafford.

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finished product, as carried out in South Wales about 1873.

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PHILLIPS, David.

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solutions.

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SAINT-ANGE, Walter de, & Le Blanc, V.

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Economics of iron and steel; an attempt to make clear the
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trades, to those whose province it is to deal with ma-
terial after it is made. 1891.....669.1 S62

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Chemistry of iron and steel making. 1890.....669.1 W74

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Directory to the iron and steel works of the United States.

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The same; supplement, containing a complete list of the

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AMERICAN manufacturer and iron world; weekly, Mar. 26,

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- JOURNAL of the United States association of charcoal iron workers; bimonthly. v.1-8, in 4. 1880-90.....r669.105 J46
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BECK, Ludwig.

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 v.2. Das 16. und 17. jahrhundert.
 v.3. Das 18. jahrhundert.
 v.4. Das 19. jahrhundert von 1801 bis 1860.
 v.5. Das 19. jahrhundert von 1860 an bis zum schluss.

FRENCH, Benjamin Franklin.

- History of the rise and progress of the iron trade of the United States, 1621-1857. 1858.....r669.109 F92
 Deals with the condition of the iron trade, the obstacles encountered in its development and the effect of free-trade legislation upon its growth. Statistics of manufacture, importation, exportation and prices are given.

SCRIVENOR, Harry.

- Comprehensive history of the iron trade throughout the world, with an appendix containing official tables and other public documents. 1841.....r669.109 S43
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SWANK, James Moore.

- History of the manufacture of iron in all ages and particularly in the United States to 1891, also a short history of early coal mining in the United States. 1892.....q669.109 S97
The same. 1892.....qr669.109 S97
 Introduction to the history of ironmaking and coal mining in Pennsylvania. 1878.....669.109 S97i
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669.12 Cast-iron. Blast-furnace

ALABAMA—Geological survey.

Iron making in Alabama, by W. B. Phillips. 1898. 669.12 A31

The same. 1896. r669.12 A31

BELL, Sir Isaac Lowthian.

Chemical phenomena of iron smelting; an examination of the circumstances which determine the capacity of the blast furnace. 1872. r669.12 B41

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CHURCH, Seymour R. *pub.*

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GRUNER, Louis Emmanuel.

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JOHNSON, Walter Rogers.

Notes on the use of anthracite in the manufacture of iron, with some remarks on its evaporating power. 1841. ... r669.12 J36

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Cast iron; a record of original research. 1902. 669.12 K15

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NEEDHAM, M.

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v.1. Metallurgy of iron.

The same. v.1. 1895. r669.12 T86

Assumes a general knowledge of iron-making, and attempts, by extreme condensation and copious bibliographical references, to produce a work standing between an exhaustive treatise and an elementary text-book.

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WEST, Thomas Dyson.

Metallurgy of cast iron; a complete exposition of the processes involved in its treatment, chemically and physically, from the blast furnace through the foundry to the testing machine. 1902. 669.12 W56

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669.16 Steel

ANDREWS, Thomas, b. 1847.

Microscopic internal flaws inducing fracture in steel.

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BARNES, Phinehas.

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Bulletin, v.4, no.25.).....r557.3 U25b v.4

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FITCH, Thomas W. *comp.*

Bessemer steel; ores and methods. 1882.....r669.16 F55

Outlines methods of manufacture, cost, etc. in various countries, describing important works.

GRUNER, Louis Emmanuel.

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process in the United States. 1872.....669.16 G94

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HALL, Joseph.

The iron question considered in connection with theory,

practice and experience, with special reference to the

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HOWE, Henry Marion.

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The same. v.I. 1895.....q669.16 H85

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Exhaustive critical discussion of steel-making.

JEANS, James Stephen.

Steel; its history, manufacture, properties and uses. 1880..669.16 J22

The same. 1880.....r669.16 J22

Describes thoroughly the development of the steel industry to 1880, giving notes on many processes used and proposed.

LANDRIN, Henri C.

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ing and use; with an appendix on the Bessemer and

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MÜLLER, Friedrich C. G.

Krupp's steel works. 1898.....qr669.16 M95

Popular description of these famous works, well illustrated and interestingly written.

RÉAUMUR, René Antoine Ferchault de.

L'art de convertir le fer forgé en acier, et l'art d'adoucir le

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ROTT, Carl.

Die Klein-Bessemererei für den stahlformguss, temperguss

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Treats of the construction and uses of Bessemer converters for charges of about 1500 lbs. Gives plans, cost of installation and operation, etc.

- UNITED STATES—Navigation bureau. (Navy department.)
 Papers and discussions on experiments with steel, reprinted from various sources. 1883. (Naval professional papers, no.14.).....r669.16 U25
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 Basic Bessemer process; tr. fr. the German by W. B. Phillips and Ernst Prochaska. 1891.....r669.16 W41
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 Full, reliable description by a famous German metallurgist. Well illustrated with drawings from actual practice.
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 Use of hot-blast in the Bessemer process. 1899.....669.8 H39
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 Practical directions for workmen.
- REISER, Fridolin.
 Das härten des stahles in theorie und praxis. 1900.....r669.17 R32
 Concise, yet thorough, treatment, paying especial attention to the practical application of the theory of hardening.
- STROMEYER, Johann Philip Edmund Charles.
 Injurious effect of a blue heat on steel and iron. 1887.
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 Naval professional papers, no.21.).....r669.17 S92
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669.18 Roll-turning

- DAELEN, R. and others.
 Die kalibrirung der eisenwalzen; drei gekrönte preisschriften eingereicht dem Verein zur beförderung des gewerbleisses in Preussen, von R. Daelen, A. Hollenberg und Diekmann. 1874.....qr669.18 D13
 Three monographs upon the theory and practice of roll-turning for various shapes, describing in detail the methods of calculating the form of the roll for specified sections.

SPENCER, Adam.

Roll-turning for sections in steel and iron, with appendix.

2v. 1894.....qr669.i8 S74

Series of drawings to scale, giving examples of rolls for the different kinds of work which have proved satisfactory in use. All theoretical discussion is omitted.

TUNNER, Peter.

Treatise on roll-turning for the manufacture of iron, with

atlas. 2v. 1869.....qr669.i8 T84

v.1. Text. v.2. Plates.

669.2 Gold and silver

ADAMS, William James.

Hints on amalgamation and the general care of gold mills.

1899669.2 A21

"Results of the observations I have made...demonstrated as correct by application to several very difficult ores." *Author.*

BOSQUI, Francis Lawrence.

Practical notes on the cyanide process. 1899.....669.2 B64

DEL MAR, Alexander.

History of the precious metals from the earliest times to

the present. 1902.....669.2 D41

Bibliography, p.11-22.

Deals with the exploration of the world for gold and silver from the earliest times to the beginning of the 20th century. Maintains that the desire for these metals has been the principal motive leading to the dominion of the world by civilized races. Exhaustive, valuable and very readable work.

EGLESTON, Thomas.

Metallurgy of silver, gold and mercury in the United

States. 2v. 1887-90.....q669.2 E36

v.1. Silver. v.2. Gold and mercury.

The same. 2v. 1887-90.....qr669.2 E36

Treats the subject quite exhaustively but is hardly up-to-date, and can scarcely be accepted as representing the best American practice, even at the date of publication.

EISSLER, Manuel.

Cyanide process for the extraction of gold; its practical

application on the Witwatersrand gold-fields and else-

where. 1898.....669.2 E42c

Describes process and gives details of a few South African plants. Information given is rather incomplete.

Metallurgy of gold; a treatise on the metallurgical treat-

ment of gold-bearing ores; including the processes of

concentration, chlorination, and extraction by cyanide,

and the assaying, melting and refining of gold. 1896...669.2 E42

While containing much of value, is to be used cautiously, as the author's information is at times inaccurate.

Metallurgy of silver; a treatise on the amalgamation, roast-

ing and lixiviation of silver ores; including the assaying,

melting and refining of silver bullion. 1898.....669.2 E42m

LOCK, Charles G. Warnford.

Gold milling principles and practice. 1901.....669.2 L75

Comprehensive practical manual of the operations necessary in the extraction of gold from its ores. Contains descriptions of the chief processes now in use (1901).

LOUIS, Henry.

Handbook of gold milling. 1894.....669.2 L92

Author summarizes his work as commencing with "an account of the physical and chemical properties of gold and of mercury. Stamp mill construction is considered in detail, the mechanical principles underlying the design of each part being throughout elucidated. The theory and practice of concentration, as far as it refers to gold milling, is next considered, together with the most approved modern methods of treating the concentrates and the other products of milling. A chapter on the economic considerations involved, and one on the assaying of gold ores and mill products are also appended."

O'DRISCOLL, Florence.

Notes on the treatment of gold ores. 1889.....r669.2 O14

Outline of methods for those having no knowledge of the subject.

PARK, James.

Cyanide process of gold extraction. 1897.....669.2 P23

Die cyankalium-laugung von golderzen ("Cyanide process of gold extraction"); frei bearbeitet, vermehrt und eingeleitet von Ernst Victor. 1902. (Hartleben's chemisch-technische bibliothek.).....r669.2 P23

Concise exposition of the practice and theory of the cyanide process. Illustrated.

PERCY, John.

Metallurgy; silver and gold. pt.1. 1880.....r669.2 P42

No more published.

Treats only of silver. Gives a clear, accurate review of the subject as developed previous to 1880. Describes the chemical properties, methods of assaying and smelting, etc.

PHILLIPS, John Arthur.

Mining and metallurgy of gold and silver. 1867.....qr669.2 P46

Describes the various producing districts of the world, with statistics as to their yield and importance, and the methods of extraction, refining, etc. in use at the time of publication.

ROSE, Thomas Kirke.

Metallurgy of gold. 1898.....669.2 R71

Bibliography, p.503-514.

The same. 1898.....r669.2 R71

Concise review of methods of treating ores, recovery of gold, refining, assay of ores and bullion, etc. Deals with principles of procedure rather than mechanical details. Especially good for the chemistry of processes.

WILSON, Eugene Benjamin.

Chlorination process. 1897669.2 W76

Cyanide processes. 1897669.2 W76c

The same. 1896r669.2 W76c

"Authorities," p.111-112.

Chiefly a compilation from the periodical and patent office literature. Gives the theory, and points out the factors which have a special bearing in successful operation, but does not go into details of the mechanical arrangements necessary.

669.3 Copper

JAPING, Eduard.

Kupfer und messing, sowie alle technisch wichtigen kupferlegierungen, ihre darstellungsmethoden, eigenschaften und weiterverarbeitung zu handelswaaren. 1883. (Hartleben's chemisch-technische bibliothek.).....r669.3 J18

Copper-reducing and refining, casting in copper and its alloys, forging, rolling and drawing are included.

LAMBORN, Robert H.

- Metallurgy of copper; an introduction to the methods of seeking, mining and assaying copper, and manufacturing its alloys. 1869.....669.3 Lr8
 "Authorities," p.6.
 Rudimentary treatise for students and artisans.

PETERS, Edward Dyer.

- Modern copper smelting. 1901.....669.3 P45
The same. 1895r669.3 P45
 The standard American work on the subject, (1901).

669.4 Lead

COLLINS, Henry Francis.

- Metallurgy of lead and silver; ed. by Sir W. C. Roberts-Austen. 2v. 1899-1900.....669.4 C71
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The same. 2v. 1900r669.4 C71
 Trustworthy, modern and fairly complete. Author has had large practical experience in mining and metallurgical work.

EISSLER, Manuel.

- Metallurgy of argentiferous lead; a practical treatise on the smelting of silver-lead ores and the refining of lead bullion; reports on various smelting establishments and descriptions of modern smelting furnaces and plants in Europe and America. 1891.....669.4 E42
 Chiefly devoted to blast-furnace practice, especially as developed in the United States.

HOFMAN, Henry O.

- Metallurgy of lead and the desilverization of base bullion. 1893r669.4 H68

PERCY, John.

- Metallurgy of lead, including desilverization and cupellation. 1870.....r669.4 P42
 Very complete résumé up to the time of publication. A standard reference work, although antiquated in accounts of practice.

669.7 Aluminium

ALUMINUM world; monthly, Oct. 1894-Dec. 1902. 8v.

- [1895-1903.]qr669.7 A47
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BLAKE, William Phipps.

- Note on the use of aluminum in the construction of instruments of precision. 1890.....r669.7 H93
 Reprinted from the "Transactions of the American institute of mining engineers," v.18, Feb. 1890.
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COWLES, Eugene H.

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- HUNT, Alfred Ephraim.
 Manufacture of aluminium by electrolysis at Niagara, with
 an abstract of the discussion upon the paper; ed. by
 James Forrest. 1896.....665.4 B83
 Reprinted from the "Minutes of proceedings of the Institution of civil engineers," v.124.
 Description of the process and plant of the Pittsburgh reduction company,
 by its president (1896).
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 Die produkte; deren behandlung und verwendung.....r669.7 H93
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 Most complete and authoritative work yet written. Author is (1901)
 assistant professor of metallurgy at Lehigh university.
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 Historical account of discovery, methods of reduction of ores, etc.
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669.8 Fuels. Furnaces

DISDIER, Enrique.

Use of blast-furnace and coke-oven gases. 1899.....669.8 H39

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Bound with other pamphlets.

FISCHER, Ferdinand.

Feuerungsanlagen für häusliche und gewerbliche zwecke.

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HEAD, Archibald Potter.

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Leadwork, old and ornamental, and for the most part, English. 1893.....671 L65

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v.2. From the close of the mediæval period to the end of the 18th century, excluding English work.
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- Galvanizing and tinning; a practical treatise on coating with tin and zinc, with a chapter on tinning gray iron castings. 1900.....672.1 F61
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- History of the trade in tin; a short description of tin mining and metallurgy, a history of the origin and process of the tin-plate trade, and a description of the ancient and modern processes of manufacturing tin-plates. 1880.....r672.1 F66

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SMITH, J. Bucknall.

- Treatise upon wire; its manufacture and uses. 1891.....q672.3 S65
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- Art of coppersmithing; a practical treatise on working sheet copper into all forms. 1894.....r673 F98
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- Die bronzewaaeren-fabrikation. 1877. (Hartleben's chemisch-technische bibliothek.).....r673 M95
Composition of various brasses and bronzes, directions for casting bells, statues and other objects, for finishing castings and for bronzing wood and various metals.

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VOIGT, Otto.

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ing compounds, blackings and polishes used by saddle and boot makers, etc.

VILLON, A. M.

Practical treatise on the leather industry; tr. by F. T. Addyman. 1901q675 V33
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BUTLER, (J. W.) PAPER CO.

Story of paper-making; an account of paper-making from its earliest known record. 1901.....676 B97
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CROSS, Charles Frederick, & Bevan, E. J.

Text-book of paper-making. 1900.....676 C89
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DUNBAR, James.

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MIERZINSKI, Stanislaus.

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 Complete treatise, describing raw materials, machinery and methods. Printed on various kinds of paper, of which the percentage composition is given.

MUNSELL, Joel.

- Chronology of the origin and progress of paper and paper-making. 1876.....676 M96
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PARKINSON, Richard, *teacher at Harris institute.*

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SCHUBERT, Max.

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677 Textile fabrics

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- Design in textile fabrics. 1899. (Manuals of technology.)...677 A82
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BOTTTLER, Max.

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Materials and methods employed for linen, cotton, silk and woolen fabrics, also methods for incombustible and waterproof finishing.

ROCK, Daniel.

Textile fabrics. 1876. (South Kensington museum art handbooks.)677 R57
Popular account of their history, illustrated with numerous woodcuts of fine examples of artistic weaving. Intended as an introduction to the study of textiles.

SEEMANN, Theodor.

Die tapete; ihre ästhetische bedeutung und technische darstellung, sowie kurze beschreibung der buntpapier-fabrikation. 1882. (Hartleben's chemisch-technische bibliothek.)r677 S45

WINSHIP, Albert Edward.

Our industries; fabrics. 1897.....677 W78
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MARSDEN, Richard.

Cotton spinning; its development, principles and practice. 1899. (Technological handbooks.).....677.1 M41
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NASMITH, Joseph.

Student's cotton spinning. 1896.....677.1 N14
Describes concisely, yet thoroughly, all the various operations in the manufacture of cotton yarn, and the machinery in practical use.

TAYLOR, John T.

Cotton weaving and designing. 1898.....677.1 T25
Text-book dealing with mechanical details.

WHITE, George Savage.

Memoir of Samuel Slater, the father of American manufactures; connected with a history of the rise and progress of the cotton manufacture in England and America, with remarks on the moral influence of manufac-

- tories in the United States. 1836.....r677.1 W63
 Samuel Slater (1768-1835) was the first successful cotton-manufacturer in America. This industry he started in 1790 at Pawtucket, Rhode Island, using machinery designed entirely from his memory of that used in England, the laws of which country at that time forbade the exportation of drawings or models of the machines.

677.2 Wool

BEAUMONT, Roberts.

- Woollen and worsted cloth manufacture; a practical treatise for the use of all persons employed in the manipulation of textile fabrics. 1899. (Technological handbooks.)...677.2 B35
 Intended to cover in a concise, yet comprehensive manner the whole routine of the manufacture of woollen textiles.

BOWMAN, Frederick H.

- Structure of the wool fiber in its relation to the use of wool for technical purposes. 1885.....677.2 B66
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- Wool and manufactures of wool. 1894.....r677.2 F76
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McLAREN, Walter Stowe Bright.

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McMURTRIE, William.

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- Silk industry in America; a history prepared for the Centennial exposition. 1876.....677.3 B76
 Contains the fourth annual report of the Silk association of America.

SÜVERN, Carl.

- Die künstliche seide; ihre herstellung, eigenschaften und verwendung, unter besonderer berücksichtigung der patentlitteratur. 1900.....r677.3 S96
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WYCKOFF, William Cornelius.

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- provements and advances of silk manufacture in the United States. 1879.....r677.3 W98
Contains the seventh annual report of the Silk association of America.
Essay, for consumers, on the merits of American silk, with an appendix giving statistics and a directory of American silk manufacturers, dealers, importers and brokers.

678 Rubber

BRANNT, William Theodore.

- India rubber, gutta-percha and balata. 1900.....678 B71
"Aim...is to give the reader a knowledge of the raw materials as well as to present the industry in all its various branches as carried on by the most progressive manufacturers." *Preface.*

HEINZERLING, Christian.

- Die fabrikation der kautschuk- und guttaperchawaaren, sowie des celluloids und der wasserdichten gewebe, mit besonderer berücksichtigung der neueren fortschritte die in diesen industriezweigen gemacht worden sind; ein handbuch für techniker, fabrikanten, gelehrte, etc. 1883. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.).....r675 H42
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OBACH, Eugene F. A.

- Gutta percha. 1898. (Cantor lectures.).....q678 O12
Delivered before the Society for the encouragement of arts, manufactures and commerce, Nov. 29-Dec. 13, 1897.
Well-illustrated monograph on all branches of the industry. Contains the results of long experience and of much research carried out in the laboratories of Siemens brothers and company.

PEARSON, Henry Clemens.

- Crude rubber, and compounding ingredients; a text-book of rubber manufacture. 1899.....r678 P35
Gives the varieties, substitutes, methods of manufacture, vulcanizing, etc. Contains a chapter on gutta-percha.

SLOANE, Thomas O'Connor.

- Rubber hand stamps and the manipulation of rubber. 1900..r678 S63
Includes chapters on glue stamps, the hektrograph, special cements and inks.

STEFAN, August.

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- misch-technische bibliothek.).....r679 A55v
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- LEHNER, Sigmund.
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679.1 Rattan and straw-weaving

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 Praktische handbuch für korbflechter. 1887. (Hartleben's chemisch-technische bibliothek.).....r679.1 A55p
- Die verarbeitung des strohes zu geflechten und strohhüten, matten, flaschenhülsen, sielen, in der papierfabrikation und zu vielen anderen zwecken. 1898. (Hartleben's chemisch-technische bibliothek.).....r679.1 A55

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Contents: Lathes and lathe appliances.—The home manufacture of tools for metal work.—The home manufacture of tools for wood-working.—Miscellaneous tools and recipes.
- The same*.....j680 C25
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 Manual of mending and repairing. 1896.....680 L57
 Best methods of repairing broken china, books, ivory, metal-work, leather-work, etc.
- LUKIN, James.
 Boy engineers; what they did and how they did it. 1893..j680 L97b
 True story of two boys who became engineers; describes making tools, building workshop and constructing machines.
- Young mechanic, containing directions for the use of all kinds of tools. 1894.....j680 L97
 Also directions for use of lathe, construction of steam-engines, mechanical models and metal-working.
- SCHOFIELD, Robert James, and others.
 Home mechanic and complete self-instructor in carpentry, painting, horse-shoeing, soap making, candy making, baking, taxidermy, tanning, etc. 1897.....r680 S36

WAITE, Henry Randall, *ed.*

Boy's workshop. 1884.....j680 W14

Outlines in a very practical way the care and use of tools and the making of useful articles.

Contains among other things: "How to make a tool cabinet," "How to build a portable wooden tent," "A boy's railway and train," "How to bind magazines," "How to photograph," "Archery for boys."

681 Watch and instrument making

BRITTEN, Frederick James.

Old clocks and watches and their makers; an historical and descriptive account of the different styles of clocks and watches of the past, in England and abroad; to which is added a list of eight thousand makers. 1899...681 B750
Interesting, readable and well illustrated.

On the springing and adjusting of watches. 1898.....681 B75
"Intended for those tolerably conversant with watchmaking generally... Knowledge of many elementary facts is assumed." *Preface.*

Watch and clock makers' handbook, dictionary and guide. 1896r681 B75
Combination of dictionary, encyclopedia and handbook. Written in a clear style and well illustrated.

KEMLO, F.

Watch-repairer's hand-book; a complete guide to the beginner in taking apart, putting together and thoroughly cleaning the English lever and other foreign watches, and all American watches. 1891.....681 K17
Directions are scarcely full enough to warrant title.

SAUNIER, Claudius.

Treatise on modern horology. 1887.....qr681 S25
Standard treatise on theory and practice.

WOOD, Edward J.

Curiosities of clocks and watches from the earliest times. 1866r681 W85
Compilation of interesting facts regarding curious clocks and watches, those which have belonged to noted persons, and others which are famous or unusual.

ZEITSCHRIFT für instrumentenkunde; organ für Mittheilungen aus dem gesammten gebiete der wissenschaftlichen technik; [monthly]. v.1-date. 1881-date...qr681.05 Z43
From Jan. 1896 there has been issued and bound with the "Zeitschrift," a supplement, having a separate title-page, which is at first called "Beiblatt zur Zeitschrift für instrumentenkunde; vereinsblatt der Deutschen gesellschaft für mechanik und optik," and later "Deutsche mechaniker-zeitung."

682 Blacksmithing. Metal-working

COMPTON, Alfred George.

First lessons in metal-working. 1890.....r682 C73
Text-book for classes in manual training.

RICHARDSON, Milton Thomas, *ed.*

Practical blacksmithing. 4v. 1889-95.....682 R41
Compilation of articles contributed to the "Blacksmith and wheelwright." Forms a fairly complete manual of tools and methods.

SCHLOSSER, Edmund.

Das löthen und die bearbeitung der metalle. 1891. (Hart-leben's chemisch-technische bibliothek.).....r682 S34

682.1 Horseshoeing

HUNTING, William.

Art of horse-shoeing; a manual for farriers. 1898.....682.1 H94
"An endeavor has been made to be as simple and clear as possible in expression, to lay down correct general principles and to point out the technical details which are essential to good shoeing." *Preface.*

LUNGWITZ, Clemens Anton.

Text-book of horseshoeing; for horseshoers and veterinarians. 1898.....682.1 L97

RUSSELL, William, *of Cincinnati.*

Scientific horseshoeing. 1895.....r682.1 R91
Considers the use of shoes in correcting the action and gait of horses and in remedying diseases of the foot. A practical manual.

683 Lock and gun making

ESSAY on shooting. 1791.....r683 E84

Includes a non-technical description of the methods of manufacturing gun-barrels, essays on recoil and bursting, on the cause determining the range, instruction in shooting and in training pointers, and descriptions of English game and the methods of hunting.

GREENER, William Wellington.

The gun and its development. 1899.....683 G84g

The same. 1896.....r683 G84

Treatise on small arms, by a leading English manufacturer. Treats of military rifles, but pays particular attention to sporting arms and especially to shot-guns.

RIVERS, Augustus Henry Lane Fox Pitt.

On the development and distribution of primitive locks and keys. 1883.....qr683 R52
Description of the author's collection, with illustrations of a large number of forms.

YALE & TOWNE MANUFACTURING CO.

Catalogue no.14; locks and hardware. 1893.....r683 Y13

684 Cabinet-making. Wood-working

ARKWRIGHT, John P. *ed.*

Cabinet-making for amateurs. [1899.].....684 A72

Requires some knowledge of the use of tools.

BARTER, S.

Manual instruction; woodwork, (the English sloyd).

1892684 B27

For teachers. Follows the course required in the examinations of the City and guilds of London institute.

BOWER, John A.

How to make common things; for boys. 1892.....j684 B66

Describes simple forms of toys, furniture, woodwork, electric apparatus, wirework, ironwork, etc.

DENNING, David.

Art and craft of cabinet-making. 1891.....684 D43

For amateurs and young furniture-makers.

GOSS, William Freeman Myrick.

Bench work in wood; a course of study and practice, designed for the use of schools and colleges. 1899.....684 G69
 Author is (1899) professor of practical mechanics in Purdue university.
 Treats of bench tools and their use, and the elements of wood-construction. Simple and practical.

HODGSON, Frederick Thomas.

Hand saws; their use, care and abuse, how to select and how to file them. 1896.....684 H66
 "Authorities," p.4.

HOFFMAN, B. B.

Sloyd system of wood working; with a brief description of the Eva Rodhe model series, and an historical sketch of the growth of the manual training idea. 1892.....684 H67

JOURNEYMEN cabinet and chair-makers' Philadelphia book

of prices. 1795.....684 J46

KILBON, George B.

Elementary woodwork. 1893.....684 K25

LUKIN, James.

Picture frame making for amateurs. [1882.].....684 L97

NYE, Alvan Crocker.

Furniture designing and draughting; notes on the elementary forms, methods of construction and dimensions of common articles of furniture. 1900.....q684 N54
 Intended for students of design, architects, etc. Does not treat of methods of construction except as they relate to draftsman's work.

RICKS, George.

Manual training, woodwork; a handbook for teachers, with an appendix on modelling in cardboard as an introduction to woodwork. 1898.....q684 R43

SHERATON, Thomas.

Cabinet-maker and upholsterer's drawing-book; revised and prepared for the press by J. M. Bell. 1895.....qr684 S55
 Reprint of the edition of 1802.

"Sheraton was the apostle of the severer taste in English cabinet-making which followed upon the rococo leanings of his great predecessor, Thomas Chippendale...The central doctrines of all his work and writing are that ornamentation must subserve utility, that the lines of construction, if sound, connote beauty, and that a successful simplicity is harder and more worthy of attainment than the highest development of Louis-Quinze superfluity. That his principles were not the outcome of a mere vague intuition is evidenced by the admirable treatises on geometry, architecture, and perspective with which he introduces his monumental 'Cabinet-maker and Upholsterer's Drawing-book.'" *Dictionary of national biography.*

UNWIN, William Cawthorne.

Exercises in wood-working for handicraft classes in elementary and technical schools; [plates]. 1892.....qr684 U25
 Set of graduated drawings of suitable pieces of work.

WHEELER, Charles Gardner.

Woodworking for beginners. 1900.....684 W61
The same.....j684 W61

"Aim is to suggest to amateurs of all ages many things which they can profitably make of wood, and to start them in the way to work successfully...Great care...has been taken to include only what can be profitably done by an intelligent boy of from ten to eighteen or by the average untrained worker of more mature years." *Preface.*

WOOD-WORKING tools; how to use them; a manual.

1896684 W87

Prepared for the Industrial school association of Boston, by one of its committees.

686 Bookbinding

BOECK, Josef Phileas.

Die marmorirkunst. 1896. (Hartleben's chemisch-technische bibliothek.)r686 B58

Theoretical and practical. Describes apparatus and processes in detail. Includes description of machinery for manufacturing marbled paper in large quantities.

BRASSINGTON, William Salt, *ed.*

History of the art of bookbinding, with some account of the books of the ancients. 1894q686 B71

Well illustrated with colored plates and drawings in the text.

COCKERELL, Douglas.

Bookbinding and the care of books; a text-book for bookbinders and librarians. 1901. (Artistic crafts series of technical handbooks.)686 C64

Useful handbook of workshop practice. Describes minutely every process and tool connected with bookbinding. Fully illustrated.

DAVENPORT, Cyril.

Royal English bookbindings. 1896. (Portfolio monographs.)qr686 D29

Describes the bindings of books, chiefly those in the British museum which have been bound for rulers of England. Numerous plates, some of which are colored.

FLETCHER, William Younger.

Bookbinding in England and France. 1897q686 F63

Consists of "Portfolio monograph" no.10, entitled "Bookbinding in France," and minor articles on bookbinding in England.

Bookbinding in France. 1894. (Portfolio monographs.)...qr686 F63

Brief, accurate account of the history and growth of the art in France. Numerous illustrations, some in colors.

HALFER, Josef.

Progress of the marbling art. 1894686 H16

HORNE, Herbert Percy.

Binding of books. 1894. (Books about books.)686 H79

Essay in the history of gold-tooled bindings in France, Italy and England. Includes a well-written description of the technical methods of bookbinding.

MATTHEWS, Brander.

Bookbindings, old and new. 1895686 M47

"The Grolier club of New York," p.289-335.

Pleasant and very readable account. Contains many illustrations.

PRIDEAUX, Sarah Treverbian.

Historical sketch of bookbinding. 1893686 P94

Bibliography, p.251-294.

"Miss Prideaux is a practical bookbinder; one of those persons who in England have devoted themselves to handwrought, specially designed binding in the spirit of ancient handicraft. The book is capable of giving a close and very intimate sense of the essential characteristics of the art as it was practiced in the past, when it was a decorative art as important as most others." *Russell Sturgis.*

SOCIETY FOR THE ENCOURAGEMENT OF ARTS, MANUFACTURES AND COMMERCE.

Report of the committee on leather for bookbinding. 1901....q686 S67

Appendixes: Hints to owners and keepers of libraries.—Circular to librarians and replies.

The same. 1901qr686 S67

Inquiry into the durability of modern leather bookbindings, the comparative durability of various leathers and causes of deterioration. Suggests methods of binding and preservation.

ZAEHNSDORF, Joseph William.

Art of bookbinding. 1890. (Technological handbooks.)...686 Z17

Describes the various processes of binding in a clear and practical manner, giving directions for trade binding, and also for more elaborate and artistic work. Of value to those who are in the trade, as well as to amateurs.

689 Weaving. Basketry

BOWLING, Tom, *pseud.*

Book of knots; a complete treatise on the art of cordage, describing the manner of making every knot, tie and splice. 1899.....j689 B66

FIRTH, Annie.

Cane basket work; a manual on weaving useful and fancy baskets. 1899.....689 F52
Practical elementary directions for teachers and amateurs. Fully illustrated. Adapted specially to English conditions.

LATTER, Lucy R.

Cane weaving for children. 1900.....689 L36
Instruction book for teachers. Gives exercises suitable for children from six to ten years of age.

WALKER, Louisa.

Varied occupations in weaving. 1895.....689 W17
Gives exact descriptions of all sorts of weaving that can be done in schools, from the paper mats of the kindergarten to quite elaborate baskets, with suggestions for articles to be made. Many illustrations. Written by an English teacher and adapted to English conditions.

WHITE, Mary.

How to make baskets. 1901.....689 W63
Practical guide, giving descriptions of materials and tools, and detailed directions for the different kinds of weaving. Includes a chapter on "What the basket means to the Indian," by Neltje Blanchan. Many illustrations, particularly of fine specimens of Indian work.

690 Building

BERG, Louis de Coppet.

Safe building; rules and formulæ used in the construction of buildings. 2v. 1892-94.....690 B45

BURRELL, Edward J.

Elementary building construction and drawing. 1899.....690 B94
Gives the elements of building construction in simple form. Contains a large number of examples of structural details, and many exercises in drawing.

DAVIS, (James T.) CO. *pub.*

Architects' and builders' directory of Pennsylvania, 1901.
1901r690 D31

KIDDER, Frank Eugene.

Building construction and superintendence. 2v. 1902.....690 K24

- The same.* 2v. 1896-99.....qb690 K24
 v.1. Masons' work. v.2. Carpenters' work.
 Guide to the materials used and the most approved methods of doing
 the various kinds of work. Points out some of the ways in which
 work should not be done and methods of slighting which are frequently
 met. Thorough and practical.
- NOTES on building construction. 4v. 1892-93.....b690 N47
 v.1. First stage; elementary course.
 v.2. Second stage; advanced course.
 v.3. Materials.
 v.4. Calculations for building structures.
- POLK, (R. L.) & CO. *comp.*
 Architects, builders and contractors' directory of Pitts-
 burg, Allegheny and western Pennsylvania, 1896. 1896..b690 P76
- RILEY, J. W.
 Building construction for beginners. 1899.....690 R45
 Simple treatment of the subject, avoiding higher mathematics.
- BYRNE, Austin Thomas.
 Inspection of the materials and workmanship employed in
 construction. 1902.....690.2 B99
 "List of authorities consulted," p.514-515.
 Defines the duties of inspectors, and describes the characteristics of ma-
 terials, the methods of preparing them, and ways of slighting work.
- The same.* 1898.....r690.2 B99
- SYLVESTER, W. A.
 Modern house-carpenter's companion and builder's guide.
 1883b690.2 S98
- YOUNG, William, *architect.*
 Spsons' architects' and builders' price-book; with useful
 memoranda and tables. 1899.....r690.2 Y41

690.5 Periodicals

- BUILDERS' magazine; monthly, Jan.-Aug. 1899. v.1. 1899...qr690.5 B86
 In Sept. 1899 combined with "Architecture and building" to form "Arch-
 itects' and builders' magazine," qb720.5 A673b.
- CARPENTRY and building; monthly, 1879-82, 1896-date.
 v.1-4, 18-date. [1879-date.].....qb690.5 C22
- HOME study for the building trades; monthly, July 1897-
 Oct. 1899. 3v. in 2. 1897-99.....r690.5 H75
 Feb.-Oct. 1899 title reads "Building trades magazine."
 Nov. 1899 united with "Steam electric magazine" and "Mechanic arts
 magazine" to form "Science and industry."
- STONE; an illustrated magazine; monthly, Dec. 1893-May
 1896, Dec. 1899-date. v.8-12, 20-date. 1894-date.....r690.5 S87

691 Materials. Processes. Preservatives

- KEIM, Adolf Wilhelm.
 Die feuchtigkeit der wohngebäude der mauerfrass und
 holzschwamm nach ursache, wesen und wirkung be-
 trachtet. 1882. (Hartleben's chemisch-technische bib-
 liothek.)r691 K16
 Describes methods which have been used for prevention, and gives an
 original and improved process.

THURSTON, Robert Henry.

Materials of engineering. 3v. 1893-94.....691 T43

v.1. Non-metallic materials.

v.2. Iron and steel.

v.3. Brasses, bronzes and other alloys.

The same. 3v. 1883-1901.....r691 T43

Text-book of the materials of construction; abridged from

"Materials of engineering." 1895.....691 T43t

The same. 1895.....r691 T43t

691.1 Wood

ANDES, Louis Edgar.

Das conserviren des holzes. 1895. (Hartleben's chemisch-technische bibliothek.).....r691.1 A55

Contains a list of the various substances which have been tried, and describes a large number of processes proposed and used. Gives drawings of apparatus, etc.

BOULTON, Samuel Bagster.

Preservation of timber by the use of antiseptics. 1885.

(Van Nostrand's science series.).....691.1 B65

Short account of the history and development of these processes, with results from the author's experience and research.

MAYER, Adolf.

Chemische technologie des holzes als baumaterial. 1872.

(Handbuch der chemischen technologie; hrsg. von P. A.

Bolley und anderen.).....r666.9 M53

Bibliography, p.182-184.

Describes the chemical and physical composition of wood, the peculiar properties of the different varieties, and the methods of preserving them from decay.

691.2 Stone. 691.3 Concrete

GILLMORE, Quincy Adams.

Notes on the compressive resistance of freestone, brick piers, hydraulic cements, mortars and concretes. 1888..691.2 G41

The same. 1888.....r691.2 G41

Results of tests made at the Watertown arsenal. Contains very complete tables.

KRÜGER, Richard.

Die natürlichen gesteine; ihre chemisch-mineralogische zusammensetzung, gewinnung, prüfung, bearbeitung und conservirung. 2v. 1889. (Hartleben's chemisch-technische bibliothek.).....r691.2 K42

Theoretical and practical. For architects, engineers, stone-masons, quarrymen, etc.

POTTER, Thomas.

Concrete; its use in building, and the construction of concrete walls, floors, roofs, etc. 2v. 1891.....691.3 P85

The same. 2v. 1891.....r691.3 P85

REID, Henry.

Practical treatise on natural and artificial concrete; its varieties and constructive adaptations. 1879.....691.3 R29

Describes methods of manufacture, use, etc. in England at the time of publication.

SUTCLIFFE, George L.

Concrete; its nature and uses. 1893.....691.3 S96

691.5 Lime. Cement. Plaster

For the manufacture of cement, see 666.9

BURNELL, George Rowdon.

Rudimentary treatise on limes, cements, mortars, etc.

1850691.5 B92

On the theory of their action and the methods of manufacture and use.

A compilation, chiefly from French authors, now out of date.

CEMENT; [bimonthly], May 1900—date. v.1—date. 1900—

dateqr691.5 C31

CUMMINGS, Uriah.

American cements. 1898.....691.5 C91

GILLMORE, Quincy Adams.

Practical treatise on limes, hydraulic cements and mortars.

1890. (United States—Engineers corps. Professional papers, no.9.).....691.5 G41

The same. 1890. (United States—Engineers corps. Professional papers, no.9.).....r691.5 G41

Best treatise on American practice to the time of the last revision (1872).

Gives localities where cements are found, describes various plants, methods of manufacture, testing, use, etc.

GOLINELLI, L.

How to use Portland cement. 1899.....691.5 G58

Translation of his "Das kleine cement-buch."

PEDROTTI, Marco.

Der gips und seine verwendung; handbuch für bau- und mau-
rermmeister, stuccateure, modelleure, bildhauer, gipsgiesser, u.

s.w. 1901. (Hartleben's chemisch-technische bibliothek.)...r691.5 P36

Describes the preparation of the stone and its use for cement, artificial marble, castings, etc.

SPALDING, Frederick Putnam.

Hydraulic cement; its properties, testing and use. 1897....691.5 S73

691.7 Iron. Steel

BELGIUM—Commission pour l'étude et la recherche des
moyens d'étendre l'emploi du fer par de nouvelles ap-
plications industrielles.

Rapports et documents; atlas. 1880.....qr691.7 B39

Text wanting.

CAMBRIA IRON CO. *pub.*

Cambria steel; a handbook of information relating to struc-
tural steel, containing tables, rules, data and formulæ
for the use of engineers, architects, builders and me-
chanics. 1898.....r691.7 C14

The same. 1901.....r691.7 C14c

CARNEGIE STEEL CO. Pittsburgh.

Description of the Union iron mills, with miscellaneous
information for engineers, builders and mechanics....r691.7 C21d

Pocket companion containing information appertaining to

- the use of steel as manufactured by the Carnegie steel company. 1895.....691.7 C21
The same. 1896.....r691.7 C21
The same. 1900.....r691.7 C21p
 Pocket companion of useful information and tables appertaining to the use of wrought iron as manufactured by Carnegie bros. & co.; for engineers, architects and builders. 1884.....r691.7 C21p0
JONES & LAUGHLIN STEEL CO.
 Standard steel construction; a manual for architects, engineers and contractors. 1898.....r691.7 J39
JORDAN, Charles H. comp.
 Tabulated weights of angle, tee and bulb iron and steel, and other information for the use of naval architects. 1896r691.7 J42
NEWMAN, John.
 Metallic structures; corrosion and fouling and their prevention. 1896.....691.7 N28
ROBERTS, (A. & P.) CO.
 Steel in construction; convenient rules, formulæ and tables for the strength of steel shapes used as beams, struts, shafts, etc., made by the Pencoyd iron works. 1898...r691.7 R53
[SPENNRATH, I.]
 Protective coverings for iron.....r691.7 S74
 The original article, of which this is a translation, was published in the "Sitzungsberichte des Vereins zur beförderung des gewerbfleisses," 1895, and was awarded a silver medal.
 Deals chiefly with oil paints. Contains the results of numerous investigations by the author.

692 Building specifications. Estimates. Laws

- BOWER, W. Frank.**
 Specifications; a practical system for writing specifications for buildings. 1898.....qr692.3 B66
 Includes specification forms for masonry, carpentry, electrical work, painting, plumbing and heating.
 "Not a treatise on specifications, nor instructions in writing them... [but] an arrangement of the matter commonly used in specification writing, in a form from which specifications for most buildings may be prepared with more than usual facility and with a reasonable degree of certainty that nothing has been omitted." *Preface.*
FABROW, Frederic Richard.
 Specifications for building works, and how to write them. 1898692.3 F25
 Mainly a reprint of articles in the "Builder."
FERRY & CLAS.
 Specifications for the completion of the library and museum building for the State historical society of Wisconsin. 1897.....r692.3 F42
MACEY, Frank W.
 Specifications in detail. 1898.....b692.3 M15
HODGSON, Frederick Thomas.
 Builder's guide and estimator's price book; a compilation of current prices of building materials, also prices of labor and

cost of performing the several kinds of work required in building; appended building rules, data, tables and useful memoranda, with a glossary of architectural and building terms. 1890.....692.5 H66b

CLARK, Theodore Minot.

Building superintendence. 1903.....692.6 C52

The same. 1895.....r692.6 C52

BASEL, Switzerland.

Gesetz über hochbauten, vom 27 Juni 1895. 1895.....r692.9 B28

WAIT, John Cassan.

Engineering and architectural jurisprudence; a presentation of the law of construction. 1898.....692.9 W14

"Not intended to enable [the lay reader] to go into court to defend an action at law or to prosecute a claim, but is written primarily to assist him in avoiding trouble and litigation, and to assist him in protecting his employer's and his own rights when they are assailed." *Preface.*

Law of operations preliminary to construction in engineering and architecture; rights in real property, boundaries, easements and franchises. 1900.....r692.9 W14

The same. 1901.....692.9 W14

Intended to give to the engineering professions a general knowledge of legal engineering.

Author was formerly assistant professor of engineering at Harvard university, and is now (1900) assistant corporation counsel to the city of New York.

693 Masonry. Plastering. Fireproofing

BAKER, Ira Osborn.

Treatise on masonry construction. 1894.....693 B17

The same. 1898.....r693 B17

"The most valuable and complete treatise...ever published." *Engineering news*, 1899.

BANCROFT, Robert M. & Francis J.

Tall chimney construction; containing details of upwards of eighty existing mill, engine-house, brick works, cement works, and other chimneys in England, America and the continent, constructed in brick, stone, iron and concrete. 1885.....q693 B22

CHRISTIE, William Wallace.

Chimney design and theory; a book for engineers and architects. 1899.....693 C46

"Theoretical portion deals with area, height, draft, fuel consumption, etc., and the relations of the several portions are given in tabular form. Numerous other tables and formulas are given. The character and construction of the foundations are also considered...Index is lengthy, but not well compiled." *Engineering news*, 1899.

LANG, Gustav.

Der schornsteinbau. pt.1-3, in iv. 1896-1901.....qr693 L23

Contents: Geschichte und lichtabmessungen der schornsteine.—Querschnittsformen, spannungsvertheilung, wärmespannungen und winddruck.—Anordnung gemauerter schornsteinschäfte.

Thorough and authoritative discussion of theory and practice. Contains considerable material from American sources.

MAGINNIS, Owen B.

Bricklaying. 1901.....693 M25

Handbook of every-day brickwork, for practical bricklayers.

HODGSON, Frederick Thomas.

Plaster and plastering, mortars and cements; how to make
and how to use. 1897.....693.6 H66

KEMP, Wilfred.

Practical plasterer; a compendium of plain and ornamental
plaster work, with useful recipes and a glossary of
terms. 1893.....693.6 K17

693.8 Fireproofing

ELECTRIC FIREPROOFING CO. *pub.*

Record of fireproofed wood; tests, fireproof warships, etc.
1900r693.8 E44

EXPANDED METAL CO.

Expanded metal and its uses in fire-proof construction,
with Tables and notes on architectural engineering, by
G. S. Hayes and J. E. Boatrite. 1896.....b693.8 E98

FREITAG, Joseph Kendall.

Fireproofing of steel buildings. 1899.....693.8 F91
Subjects covered: Introductory and development.—Fires and tests.—Ma-
terials.—Planning.—Details.—Equipment.
"As good a treatise...as is practicable in the present experimental state
of the...art." *Engineering news*, 1899.

ROEBLING CONSTRUCTION CO. *pub.*

Tests of the Roebling system of fire-proof construction.
1899r693.8 R59
Detailed reports of tests made by the New York building department.

WOODBURY, Charles Jephtha Hill.

Fire protection of mills and construction of mill floors.
1895693.8 W86
Contents: Apparatus.—Mill fires.—Electric lighting.—Miscellaneous.—
Mill construction.—Mill floors.—Strength of storehouse floors.—Stiff-
ness of mill floors.—Construction of floors.—Summary of formulae.—
Strength of wood mill columns.
Considers those matters of equipment and general management which
experience has proved efficient, and the restriction of injury by means
of slow-burning construction.

694 Carpentry

BURN, Robert Scott, *ed.*

Carpenter and joiner. 1892.....694 B92
Compiled from articles in an English trades paper. Covers all important
points in timber-construction.

COLLINGS, George.

Circular work in carpentry and joinery. 1890.....694 C69
Directions for laying out and finding the molds for various forms of
curved door-frames, walls, arches, etc.

FLETCHER, Banister Flight, & Herbert Phillips.

Carpentry and joinery; a text-book for architects, engi-
neers, surveyors and craftsmen. 1898.....694 F63

GOULD, Lucius D.

Carpenter's and builder's assistant, and wood worker's guide.
1897694 G73

HODGSON, Frederick Thomas.

The carpenters' steel square and its uses. 2v. 1890-93.....694 H66c

- Title-page of v.2 reads "Steel squares and their uses."
Shows how to use the different scales on squares to solve the problems and make calculations which arise in construction.
Practical carpentry. 1883.....694 H66
Simple directions for ordinary carpentry and joinery, with a collection of useful tables.
- MELOY, D. H.
Progressive carpentry; fifty years' experience in building, many valuable improvements made which are fully explained, with a system of framing roofs. 1900.....694 M59
Describes the author's plumb and level line system of roof-framing.
Does not consider other branches of carpentry.
- MOLONEY, Thomas, *comp.*
Carpenter's and joiner's pocket companion, consisting of rules and memoranda. 1888694 M79
Bibliography, p.7-8.
- PRICES of work, adopted by the house carpenters of Pittsburghr694 P94
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- RICHEY, H. G.
Guide and assistant for carpenters and mechanics. 1894...r694 R42
"Simple methods of doing every-day work...intended...as a guide to the artisan." *Preface.*
- SYLVESTER, W. A.
Modern carpentry and building. 1896.....694 S98
Revision of his "Modern house-carpenters' companion and builders' guide."
- TREDGOLD, Thomas.
Elementary principles of carpentry. 1895.....694 T71
- YOUNG, Francis Chilton-.
Every man his own mechanic. 1896.....694 Y37e
Contents: Household carpentry and joinery.—Ornamental and constructive carpentry.—Household building art and practice.
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Errata

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22	<i>For Harper, Francis Parego read Harper, Francis Perego.</i>
88	Mill, J. S. In first line of contents, <i>for utilimate read ultimate.</i>
104	Hobbes, Thomas. <i>For call number 192 H69 read 192 H64.</i>
247	Great religions. In fifth line of contents, <i>for Postivism read Positivism.</i>
253	<i>For Anderson, Rasmus Bjorn read Anderson, Rasmus Björn.</i>
302	<i>For Anderson, Rasmus Bjorn read Anderson, Rasmus Björn.</i>
347	Women's clubs of Pittsburgh, etc. <i>For call number 331.85 W85 read r331.85 W85.</i>
431	In second line on page, <i>for (r336.1 U25de) read (r336.1 U25r).</i>
519	<i>Cancel the entry Railway age.</i>
540	Baldwin, James. <i>For call number r398 B19s read j398 B19s.</i>
646	Remsen, Ira. Introduction to the study of chemistry. <i>Transfer note to p.676 under Remsen, Ira. Introduction to the compounds of carbon.</i>
653	Nernst, Walther. In third line of note, <i>for meiner read meinen.</i>
681	Caillaux, Alfred. <i>For call number r620.6 S678 read r620.5 S678.</i>
700	Hopkins, T. C. First line of title, <i>for Pennyslvania read Pennsylvania.</i>
708	In second line on page, <i>for v.9 read v.10.</i>
708	In fourth line of note under first title, <i>for v.9 read v.11.</i>
708	In first line of note under second title, <i>for v.9 read v.12.</i>
710	New Jersey—Geological survey. (2d survey). <i>File before New Jersey—Geological survey. (3d survey) on same page.</i>
724	Holmes, W. H. In note, <i>for Bibliography of the Yellowstone national park, p.427-449 read Bibliographical appendix, p.427-449.</i>
781	Rydberg, P. A. comp. <i>For call number qr580 N26 v.1 read qr580.5 N26 v.1.</i>
817	Holland, W. J. In last line of note, <i>for North American read North America.</i>
865	<i>For Blakie, William, read Blaikie, William.</i>
869	Analyst. In second line of title, <i>for analysis read analysts.</i>
871	In class heading, <i>for 614.5 read 614.4.</i>
913	Dynamic electricity. In third line of title, <i>for Schoolbred read Shoolbred.</i>

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937 *For Barringer, David Moreau read Barringer, Daniel Moreau.*
951 Watson, T. H. *For call number r623.8 W32 read q623.8 W32.*
978 Billings, J. S. *For call number b628.8 B48 read 628.8 B48.*
984 United States—Hawaii agric. ex. station. In second line of contents, *for Van Dyne read Van Dine.*
1032 *For Metcalf, Capt. Henry read Metcalfe, Capt. Henry.*
1056 *For Association of Gas Engineers and Managers read Associations of Gas Engineers and Managers.*

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